

LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

Volume 5 | Map books

CFA16 | Ladbroke and Southam
Ecology

November 2013

ES 3.5.1.5.16



Department
for Transport

High Speed Two (HS2) Limited has been tasked by the Department for Transport (DfT) with managing the delivery of a new national high speed rail network. It is a non-departmental public body wholly owned by the DfT.

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Contents

Mapping explanatory notes

Data dictionary and definitions

Map series name	Map series description
EC-01 – Designated Sites	<i>This map series shows statutory and non-statutory sites for nature conservation located in the vicinity of the land required for the construction of the Proposed Scheme. They also show the location of Nature Reserves of the RSPB and Wildlife Trusts, and ancient woodland.</i>
EC-02 – Phase 1 Habitat (1:10,000)	<i>This map series shows Phase 1 habitat survey information for land required and in the vicinity of the Proposed Scheme at a scale of 1:10,000. Where it has not been possible to gain access for field survey, the information is based on available desk study and interpretation of aerial photography.</i>
EC-04 – Amphibians	<i>This map series shows the results of amphibian surveys conducted to inform the Environmental Assessment. It principally details the results of great crested newt surveys conducted. In addition it shows the location of those 'exceptional' populations of common amphibians recorded.</i>
EC-05 – Bats – Roost	<i>This map series shows results of field surveys conducted to investigate the potential for trees and buildings/structures to support roosting bats. It shows the location of roosts confirmed by surveys and features identified as having high/moderate potential to support roosting bats.</i>
EC-06 – Bats – Activity	<i>This map series shows the location of bat activity surveys conducted to inform the Environmental Statement. In addition it shows the location of the key bat foraging and commuting routes which have been established on the basis of the survey work conducted.</i>
EC-07 – Reptiles	<i>This map series shows the extent and results of survey work for common reptiles that has been undertaken to inform the Environmental Statement.</i>
EC-08 – Breeding Birds – Protected and Notable Species	<i>This map series shows records of protected/notable breeding birds that are considered most relevant in considering the impacts of the Proposed Scheme on breeding birds. The locations of nest sites for species such as barn owl and raptor species which may be liable to persecution are not displayed.</i>
EC-09 – Wintering and Passage Birds – Protected and Notable Species	<i>This map series shows records of selected protected/notable wintering birds that are considered most relevant in considering the impacts of the Proposed Scheme.</i>
EC-10 – Phase 2 Habitat Survey	<i>This map series shows the extent of detailed habitat surveys undertaken to inform the Environmental Statement. The map shows the location of hedgerows that qualify as 'important hedgerows' under the wildlife and landscape criteria of the Hedgerows Regulations (1997).</i>
EC-11 – Other Protected and Notable Species (1)	<i>This map series shows the extent of protected species surveys conducted to inform the Environmental Statement.</i>
EC-12 – Other Protected and Notable Species (2)	<i>This map series shows the extent of protected species surveys conducted to inform the Environmental Statement.</i>

Mapping explanatory notes

Copyright statements

Copyright statements are presented in the data dictionary and definitions section at the front of the map book, due to limited space to include this on the individual maps themselves.

Ordnance Survey data

All maps produced as part of the London-West Midlands Environmental Statement (ES) contain Ordnance Survey (OS) data. HS2 Ltd uses the most up-to-date mapping available, where possible, supplied by the OS. As such, we cannot be held responsible for any inaccuracies within this data.

As part of our licence conditions, all digital maps carry a watermark.

Chainage

Most of the maps presented as part of the ES have a chainage value shown next to the alignment. Chainage is presented on the maps in black font, in the form of XX+YYY, for example: 77+000.

Chainage (known as reference chainage) is referenced from Euston station, which is 0+000, and the value presented is in metres. For example, 77+000 refers to the point 77,000m, or 77km, from Euston station. Chainage values increase in intervals dependant on the map scale. For maps at 1:50,000, scale chainage is shown at 5km intervals. For maps at 1:25,000, scale chainage is shown at 2km intervals. For maps at 1:10,000, 1:5,000 and 1:2,500 scales, chainage is shown at 1km intervals.

Chainage has been included on the maps as a useful tool for comparing map sets showing the different environmental themes or engineering plans, due to map sets having different scales and therefore showing differing amounts of alignment on the map.

Map orientation

The majority of the maps presented in these map books are presented with the railway alignment running horizontally across the page. The direction of travel to London would be following the alignment to the right hand side of the page, and the West Midlands to the left.

The exceptions to this are map series LV-02, LV-03, LV-04, LV-07 and LV-08, which present the alignment running from the bottom to the top of the page. This is to allow more of the modelled outputs to be shown at the appropriate map scale. In this instance, the direction of travel to London would be to the bottom of the page, and the West Midlands to the top.

Map books

There are a total of 76 map books in the ES, spread across Volumes 2, 4 and 5. A list of the titles is provided in the table below for reference.

Name	Name
Volume 2 Map Books Community Forum Area: 01 Euston – Station and Approach	Volume 5 Map Books: Ecology – Community Forum Area: 05 Northolt Corridor
Volume 2 Map Book s Community Forum Area: 02 Camden Town and HS1 Link	Volume 5 Map Books: Ecology – Community Forum Area: 06 South Ruislip to Ickenham
Volume 2 Map Books Community Forum Area: 03 Primrose Hill to Kilburn (Camden)	Volume 5 Map Books: Ecology – Community Forum Area: 07 Colne Valley
Volume 2 Map Books Community Forum Area: 04 Kilburn (Brent) to Old Oak Common	Volume 5 Map Books: Ecology – Community Forum Area: 08 The Chalfonts and Amersham
Volume 2 Map Books Community Forum Area: 05 Northolt Corridor	Volume 5 Map Books: Ecology – Community Forum Area: 09 Central Chilterns
Volume 2 Map Books Community Forum Area: 06 South Ruislip to Ickenham	Volume 5 Map Books: Ecology – Community Forum Area: 10 Dunsmore, Wendover and Halton
Volume 2 Map Books Community Forum Area: 07 Colne Valley	Volume 5 Map Books: Ecology – Community Forum Area: 11 Stoke Mandeville and Aylesbury
Volume 2 Map Books Community Forum Area: 08 The Chalfonts and Amersham	Volume 5 Map Books: Ecology – Community Forum Area: 12 Waddesdon and Quainton
Volume 2 Map Books Community Forum Area: 09 Central Chilterns	Volume 5 Map Books: Ecology – Community Forum Area: 13 Calvert, Steeple Claydon, Twyford and Chetwode
Volume 2 Map Books Community Forum Area: 10 Dunsmore, Wendover and Halton	Volume 5 Map Books: Ecology – Community Forum Area: 14 Newton Purcell to Brackley
Volume 2 Map Books Community Forum Area: 11 Stoke Mandeville and Aylesbury	Volume 5 Map Books: Ecology – Community Forum Area: 15 Greatworth to Lower Boddington
Volume 2 Map Books Community Forum Area: 12 Waddesdon and Quainton	Volume 5 Map Books: Ecology – Community Forum Area: 16 Ladbroke and Southam
Volume 2 Map Books Community Forum Area: 13 Calvert, Steeple Claydon, Twyford and Chetwode	Volume 5 Map Books: Ecology – Community Forum Area: 17 Offchurch and Cubbington
Volume 2 Map Books Community Forum Area: 14 Newton Purcell to Brackley	Volume 5 Map Books: Ecology – Community Forum Area: 18 Stoneleigh, Kenilworth and Burton Green
Volume 2 Map Books Community Forum Area: 15 Greatworth to Lower Boddington	Volume 5 Map Books: Ecology – Community Forum Area: 19 Coleshill Junction
Volume 2 Map Books Community Forum Area: 16 Ladbroke and Southam	Volume 5 Map Books: Ecology – Community Forum Area: 20 Curdworth to Middleton
Volume 2 Map Books Community Forum Area: 17 Offchurch and Cubbington	Volume 5 Map Books: Ecology – Community Forum Area: 21 Drayton Bassett, Hints and Weeford
Volume 2 Map Books Community Forum Area: 18 Stoneleigh, Kenilworth and Burton Green	Volume 5 Map Books: Ecology – Community Forum Area: 22 Whittington to Handsacre
Volume 2 Map Books Community Forum Area: 19 Coleshill Junction	Volume 5 Map Books: Ecology – Community Forum Area: 23 Balsall Common and Hampton-in-Arden
Volume 2 Map Books Community Forum Area: 20 Curdworth to Middleton	Volume 5 Map Books: Ecology – Community Forum Area: 24 Birmingham Interchange and Chelmsley Wood
Volume 2 Map Books Community Forum Area: 21 Drayton Bassett, Hints and Weeford	Volume 5 Map Books: Ecology – Community Forum Area: 25 Castle Bromwich and Bromford
Volume 2 Map Books Community Forum Area: 22 Whittington to Handsacre	Volume 5 Map Books: Ecology – Community Forum Area: 26 Washwood Heath to Curzon Street
Volume 2 Map Books Community Forum Area: 23 Balsall Common and Hampton-in-Arden	Volume 5 Map Books: Land Quality
Volume 2 Map Books Community Forum Area: 24 Birmingham Interchange and Chelmsley Wood	Volume 5 Map Books: Landscape and Visual – Euston and London Metropolitan
Volume 2 Map Books Community Forum Area: 25 Castle Bromwich and Bromford	Volume 5 Map Books: Landscape and Visual – Country South
Volume 2 Map Books Community Forum Area: 26 Washwood Heath to Curzon Street	Volume 5 Map Books: Landscape and Visual – Country North
Volume 4 Map Books Off Route Effects	Volume 5 Map Books: Landscape and Visual – West Midlands Metropolitan
Volume 5 Map Books: Agriculture, Forestry and Soils	Volume 5 Map Books: Socio-Economic
Volume 5 Map Books: Air Quality	Volume 5 Map Books: Sound, Noise and Vibration – Euston and London Metropolitan
Volume 5 Map Books: Community	Volume 5 Map Books: Sound, Noise and Vibration – Country South
Volume 5 Map Books: Cultural Heritage – Euston and London Metropolitan	Volume 5 Map Books: Sound, Noise and Vibration – Country North
Volume 5 Map Books: Cultural Heritage – Country South	Volume 5 Map Books: Sound, Noise and Vibration – West Midlands Metropolitan
Volume 5 Map Books: Cultural Heritage – Country North	Volume 5 Map Books: Traffic and Transport
Volume 5 Map Books: Cultural Heritage – West Midlands Metropolitan	Volume 5 Map Books: Water Resources – Euston and London Metropolitan
Volume 5 Map Books: Ecology – Community Forum Area: 01 Euston - Station and Approach	Volume 5 Map Books: Water Resources – Country South
Volume 5 Map Books: Ecology – Community Forum Area: 02 Camden Town and HS1 Link	Volume 5 Map Books: Water Resources – Country North
Volume 5 Map Books: Ecology – Community Forum Area: 03 Primrose Hill to Kilburn (Camden)	Volume 5 Map Books: Water Resources – West Midlands Metropolitan
Volume 5 Map Books: Ecology – Community Forum Area: 04 Kilburn (Brent) to Old Oak Common	Volume 5 Map Books: Cross Topic Appendix 1: Committed Developments

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LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

Data dictionary and definitions

Data dictionary and definitions

Legend features	Definition	Source	Copyright
250m radius from all water bodies where presence of Great Crested Newt is confirmed.	250m radius from all water bodies where presence of Great Crested Newt (GCN) is confirmed.	High Speed Two (HS2) Ltd	
50m radius from all water bodies where presence of Great Crested Newt is confirmed.	50m radius from all water bodies where presence of Great Crested Newt (GCN) is confirmed.	High Speed Two (HS2) Ltd	
500m radius from all water bodies where presence of Great Crested Newt is confirmed.	500m radius from all water bodies where presence of Great Crested Newt (GCN) is confirmed.	High Speed Two (HS2) Ltd	
Activity transect route	Transect route that was surveyed during bat activity surveys.	High Speed Two (HS2) Ltd	
Ancient Woodland	Ancient Woodland Inventory. Ancient Woodland is land that has had continuous woodland cover since at least 1600AD.	Natural England	© Natural England copyright 2013. Contains Ordnance Survey data © Crown copyright and database right 2013. All rights reserved. Ordnance Survey Licence number 100022021. http://www.naturalengland.org.uk/Images/open-government-licence-NE-OS_tcm6-30743.pdf
Aquatic invertebrate: Aquatic invertebrate survey location	Location of aquatic invertebrate survey.	High Speed Two (HS2) Ltd	
Areas isolated by significant barriers to amphibian movement	Areas isolated by significant barriers to amphibian movement.	High Speed Two (HS2) Ltd	
Assumed key area of foraging habitat	Likely areas of bat foraging habitat for local bat populations, derived from bat activity survey results.	High Speed Two (HS2) Ltd	
Assumed key commuting route	Key commuting and foraging bat routes that have been identified by an ecologist after review of available survey data and application of professional judgement.	High Speed Two (HS2) Ltd	
Bat activity static detector location	Location where bat activity static detectors were used during survey period.	High Speed Two (HS2) Ltd	
Biodiversity Alert Site (BAS)	<p>Local wildlife sites in Staffordshire are Biodiversity Alert Sites (BAS) and Sites of Biological Importance (SBI). BAS are local wildlife sites and are of lower intrinsic quality or have suffered damage or disturbance. Nevertheless, they collectively form a significant part of Staffordshire’s nature conservation resource, and, in some cases, a valuable reserve series for some of the SBI.</p> <p>The BAS information is reproduced from, or based upon, information supplied by Staffordshire Ecological Record (SER) and reproduced with the permission of the SER Partnership. Individual records within the data are copyright their original recorders and provided under licence via SER.</p> <p>- All data supplied by SER is to the best of SER’s knowledge correct at the time of production. However, the precision or accuracy of SER data is usually based upon the original information supplied by the recorder and although SER strives to ensure all records are checked and validated, SER cannot be held responsible for any errors or omissions</p> <p>- The presence of a marked boundary within SER information does not infer any right of public access.</p>	Staffordshire Ecological Record	Copyright © Staffordshire Ecological Record Partnership, (2013).
Biological Notification Sites (BNS)	Biological Notification Sites (BNS) preceded Local Wildlife Sites as a local non-statutory designation. They were first designated in the late 1980s and have since been revised. There are no formal citations and for	Buckinghamshire County Council, Buckinghamshire and Milton Keynes Environment Record Centre (BMERC)	Based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty’s Stationery Office © Crown

Legend features	Definition	Source	Copyright
	some sites we have no survey data.		Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. Buckinghamshire County Council Licence No. 100021529, 2012. Copyright Buckinghamshire County Council.
Breeding birds - protection status: Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act Species listed on Birds of Conservation Concern list relevant to assessment – See Volume 5 Appendices Other notable species relevant to assessment – see Volume 5 Appendices	Field survey records of selected protected and/or notable breeding birds that are considered most relevant in considering the impacts of the Proposed Scheme on breeding birds.	High Speed Two (HS2) Ltd	
Breeding birds - survey extent	Area where breeding birds survey was conducted.	High Speed Two (HS2) Ltd	
Community Forum boundary	The Environmental Statement has been split into 26 sections called Community Forum Areas.	High Speed Two (HS2) Ltd	© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.
Confirmed bat roost – buildings: Hibernation roost Maternity roost Other roost Multiple roost types Potential to support roosting bats – buildings: High Moderate	Locations where bat roost survey has been completed within buildings. Buildings are categorised into those with potential to support bat roosts (high and medium potential) and those that have confirmed roosts. Confirmed roosts are further categorised into Hibernation, Maternity, Other or Multiple roosts.	High Speed Two (HS2) Ltd	
Confirmed bats roost – trees: Hibernation roost Maternity roost Other roost Multiple roost types Potential to support roosting bats – trees: High Moderate	Locations where bat roost survey has been completed within trees. Trees are categorised into those with potential to support bat roosts (high and medium potential) and those that have confirmed roosts. Confirmed roosts are further categorised into Hibernation, Maternity, Other or Multiple roosts.	High Speed Two (HS2) Ltd	
County boundary	County boundaries from Ordnance Survey boundary mapping.	Ordnance Survey	© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.
Depot, station, headhouse or portal building	Extends to cover operational footprint of each depot and station and the footprint of each tunnel vent shaft and headhouse at surface level. Excludes any ancillary buildings associated with these structures.	High Speed Two (HS2) Ltd	
District/Borough boundary	Ordnance Survey local authority boundary mapping.	Ordnance Survey	© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.
Ditch vegetation survey	Extent of Ditch vegetation surveys.	High Speed Two (HS2) Ltd	
Dormouse: Nest tube survey and/or nut search conducted and presence confirmed Nest tube survey and/or nut search conducted and no signs of dormouse identified	Extent of Dormouse survey using nest tube and/or nut search. Those areas where access was available either had confirmed presence or no signs were found.	High Speed Two (HS2) Ltd	

Legend features	Definition	Source	Copyright
Site identified as potentially suitable for dormouse but no access available			
Fish: Fish survey location	Location where fish survey was conducted.	High Speed Two (HS2) Ltd	
Great Crested Newt (GCN) survey locations	Results from Great Crested Newt pond surveys.	High Speed Two (HS2) Ltd	
'Important' hedgerow confirmed by field survey Possible 'Important' hedgerow - no access available for survey	Location of those hedgerows that have been identified as 'important hedgerows' or possible 'important hedgerows' under the wildlife and landscape criteria in the Hedgerows Regulations (2007).	High Speed Two (HS2) Ltd	
Land potentially required during construction	Boundary defining the maximum possible extent of construction works required to build HS2 as far as the current level of design allows. This only covers surface works and includes all tunnel portals, vent shafts and headhouses, but does not apply to wholly tunnelled sections or to air rights. It also encompasses associated highway, access, drainage and utility works.	High Speed Two (HS2) Ltd	
Local Nature Reserve (LNR)	A Local Nature Reserve (LNR) is a statutory designation made under Section 21 of the National Parks and Access to the Countryside Act 1949 by principal local authorities. Data supplied has the status of Declared. The boundaries are interpreted from material gathered from the local authorities and do not currently cover all LNRs. This national dataset is indicative not definitive. Definitive information can only be provided by individual local authorities and you should refer directly to their information for all purposes that require the most up to date and complete dataset.	Natural England	© Natural England copyright 2013 Contains Ordnance Survey data © Crown copyright and database right 2013. All rights reserved. Ordnance Survey Licence number 100022021. http://www.naturalengland.org.uk/Images/open-government-licence-NE-OS_tcm6-30743.pdf
Local Wildlife Site (LWS)	<p>Local Wildlife Sites (LWS) are identified and selected for their local nature conservation value. They protect threatened species and habitats acting as buffers, stepping stones and corridors between nationally designated wildlife sites.</p> <p>They are local non-statutory nature conservation sites. They were formerly referred to as County Wildlife Sites.</p>	<p>EcoRecord Warwickshire County Council Birmingham Council</p> <p>Greenspace Information for Greater London (GiGL)</p> <p>Northamptonshire County Council</p> <p>Buckinghamshire County Council</p> <p>Thames Valley Ecological Records Centre (TVERC) c/o Oxfordshire County Council</p> <p>Hertfordshire County Council</p>	<p>Data supplied by EcoRecord, Warwickshire BRC & Birmingham © Crown copyright and database rights 2012 Ordnance Survey Licence Number 100049190.</p> <p>Map derived from GiGL data 2012 (where a map shows information derived from GiGL data).</p> <p>This data incorporates biodiversity data supplied to HS2 by Northamptonshire Biodiversity Records Centre and The Wildlife Trust for Bedfordshire, Cambridgeshire and Northamptonshire (Wildlife Trust BCN), and is copyright to Wildlife Trust BCN and/or its partners.</p> <p>This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office © Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. Buckinghamshire County Council Licence No. 100021529,2012.</p> <p>Incorporates biodiversity data supplied by Thames Valley Environmental Records Centre (TVERC). This data are copyright to TVERC and/or its partners.</p>

Legend features	Definition	Source	Copyright
		Staffordshire Ecological Record (SER)	<p>Incorporates biodiversity data supplied to High Speed Two (HS2) by Hertfordshire Biological Records Centre and is copyright to Hertfordshire County Council, Hertfordshire Biological Records Centre and/or its partners.</p> <p>Copyright © Staffordshire Ecological Record Partnership, 2013. The information is reproduced from, or based upon information supplied by Staffordshire Ecological Record (SER) and reproduced with the permission of the SER Partnership. Individual records within the data are copyright their original recorders and provided under licence via SER. All data supplied by SER is to the best of SER's knowledge correct at the time of production. However, the precision or accuracy of SER data is usually based upon the original information supplied by the recorder and although SER strives to ensure all records are checked and validated, SER cannot be held responsible for any errors or omissions. The presence of a marked boundary within SER information does not infer any rights of public access.</p>
National Nature Reserve (NNR)	A National Nature Reserve (NNR) is the land declared under the National Parks and Access to the Countryside Act 1949 or Wildlife and Countryside Act (1981) as amended.	Natural England	<p>© Natural England copyright 2013 Contains Ordnance Survey data © Crown copyright and database right 2013. All rights reserved. Ordnance Survey Licence number 100022021.</p> <p>http://www.naturalengland.org.uk/Images/open-government-licence-NE-OS_tcm6-30743.pdf</p>
National Vegetation Classification survey	Extent of National Vegetation Classification surveys.	High Speed Two (HS2) Ltd	
Nature reserve	<p>Designated and non-designated nature reserves managed by local authorities, The Wildlife Trusts and private landowners.</p> <p>Nature reserve information is reproduced from, or based upon information supplied by Staffordshire Ecological Record (SER) and reproduced with the permission of the SER Partnership. Individual records within the data are copyright their original recorders and provided under licence via SER.</p> <p>- All data supplied by SER is to the best of SER's knowledge correct at the time of production. However, the precision or accuracy of SER data is usually based upon the original information supplied by the recorder and although SER strives to ensure all records are checked and validated, SER cannot be held responsible for any errors or omissions</p> <p>- The presence of a marked boundary within SER information does not infer any right of public access.</p>	Ecorecord, Staffordshire Ecological Record, Royal Society for the Protection of Birds	<p>Licensed in accordance with PSMA © Crown Copyright and database rights [2013]. Ordnance Survey Licence number 100049190.</p> <p>Copyright © Staffordshire Ecological Record Partnership, (2013).</p> <p>Data reproduced with the permission of RSPB. © Crown copyright. Ordnance Survey Licence Number 100021787 (2013).</p>
<p>Otter:</p> <p>Active otter holt</p> <p>Potential otter holt</p>	Location of active otter holts and potential otter holts found during field survey.	High Speed Two (HS2) Ltd	

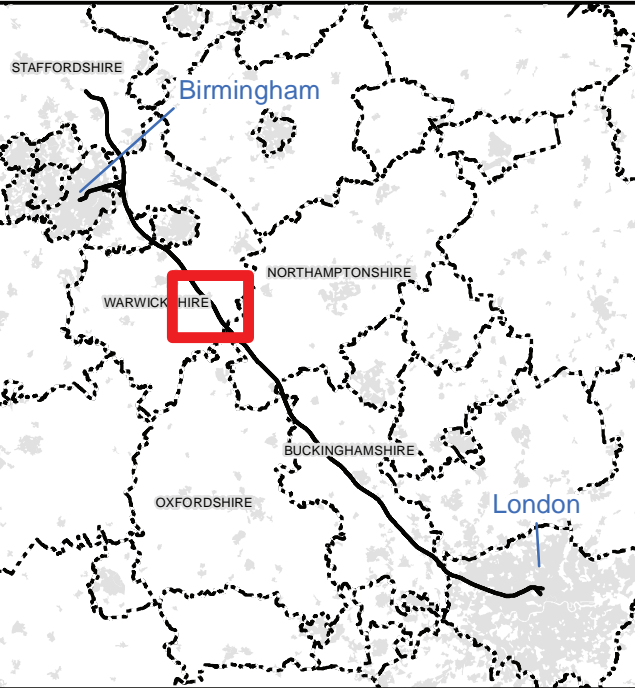
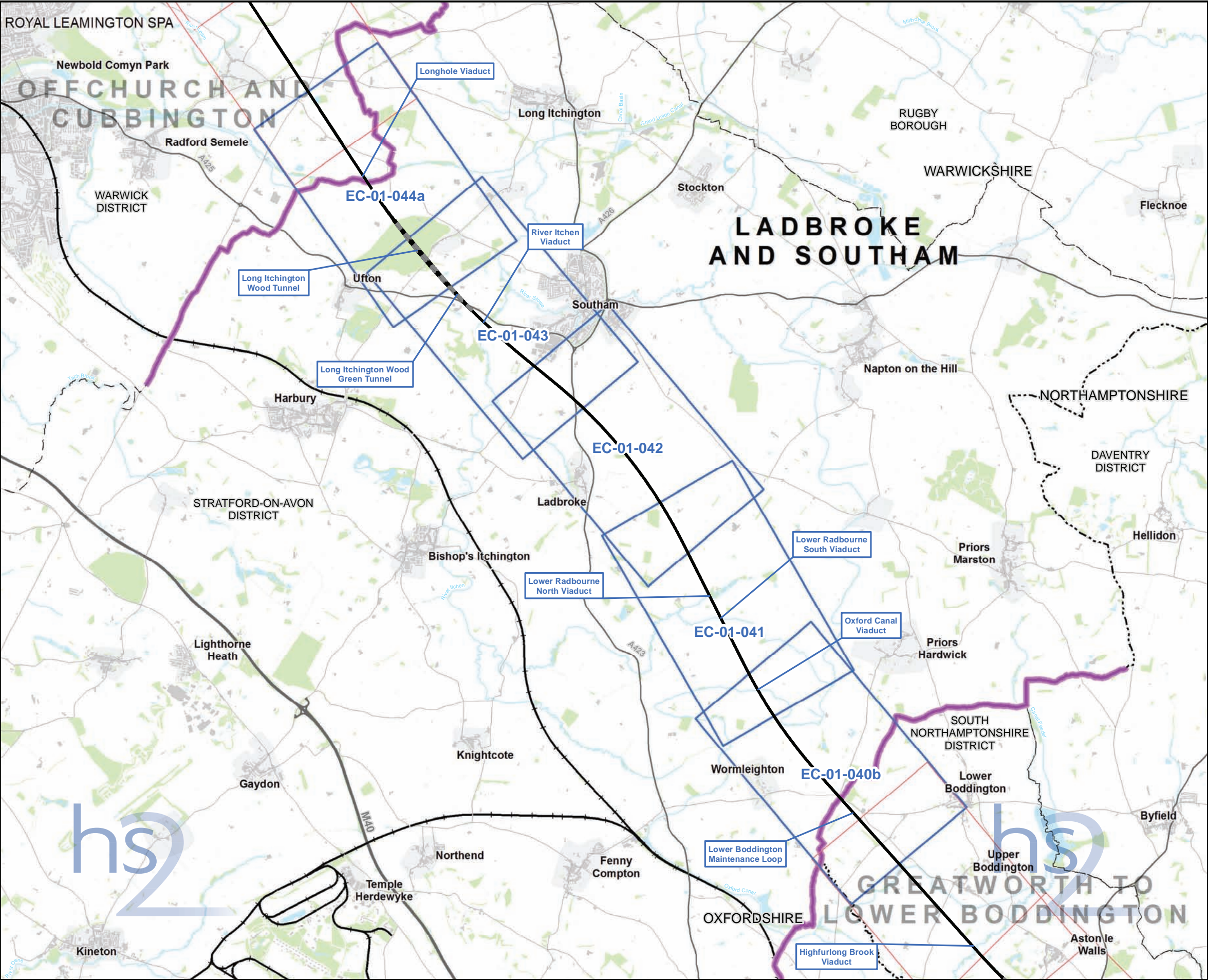
Legend features	Definition	Source	Copyright
Otter terrestrial habitat	Areas of terrestrial habitat within 100m of the Proposed Scheme that are identified as having 'high' potential to act as otter breeding sites (i.e. those ranked as having a score of 5 on the scale devised by Chanin).	High Speed Two (HS2) Ltd	
Phase 1 Habitat survey data	Results from Phase1 habitat surveys.	High Speed Two (HS2) Ltd	
Pond survey: Pond survey – national pond survey Pond survey – PSYM Pond survey – rapid assessment method	Location and type of pond surveys conducted.	High Speed Two (HS2) Ltd	
Reptiles - Population	Areas where a reptile survey was completed. Survey varies from population size class assessment, presence/absence survey or scoping visit only where it was then scoped out or it was identified as requiring further survey.	High Speed Two (HS2) Ltd	
Reptiles - Extent of areas subject to reptiles survey & results of population size class assessment	Identifies population size classes of adder, common lizard, grass snake and slow worm based on a scale from high, medium, low and absent.	High Speed Two (HS2) Ltd	
River corridor survey extent	Extent of river corridor surveys.	High Speed Two (HS2) Ltd	
River habitat survey extent	Extent of river habitat surveys.	High Speed Two (HS2) Ltd	
Route in tunnel Route on surface	Represents the proposed route of HS2, split into route on surface and tunnelled sections.	High Speed Two (HS2) Ltd	
Site of Biological Importance (SBI)	<p>Local wildlife sites in Staffordshire are called Sites of Biological Importance (SBI) and Biodiversity Alert Sites (BAS). SBI are generally the best remaining examples within Staffordshire of habitats which rate highly on the basis of such factors as naturalness, diversity or rarity of species or communities. These sites are frequently the remnants of larger areas of semi-natural vegetation, which may not be either sufficiently extensive or undisturbed to warrant SSSI status but are important examples of characteristic or notable vegetation types or habitat complexes (sometimes with associated dependent plant or animal species). As such, they contribute the most significant element in the county's nature conservation resources.</p> <p>The SBI information is reproduced from, or based upon, information supplied by Staffordshire Ecological Record (SER) and reproduced with the permission of the SER Partnership. Individual records within the data are copyright their original recorders and provided under licence via SER.</p> <p>- All data supplied by SER is to the best of SER's knowledge correct at the time of production. However, the precision or accuracy of SER data is usually based upon the original information supplied by the recorder and although SER strives to ensure all records are checked and validated, SER cannot be held responsible for any errors or omissions</p> <p>- The presence of a marked boundary within SER information does not infer any right of public access.</p>	Staffordshire Ecological Record	Copyright © Staffordshire Ecological Record Partnership, (2013).
Site of Borough (Grade I) Importance for Nature Conservation (SBI.I)	SINCs are designated by a panel of local ecological professionals. This is a non-statutory designation, although SINCs are still afforded a high level of protection within the planning system. Development that negatively impacts on a SINC will only be permitted in exceptional circumstances and where mitigation can be proven from the beginning. Sites of Borough Importance (grade 1) are selected from candidates	Greenspace Information for Greater London (GiGL)	GiGL data [2013].

Legend features	Definition	Source	Copyright
	within each borough, so ensuring that borough has some sites identified.		
Site of Borough (Grade II) Importance for Nature Conservation (SBI.II)	SINCs are designated by a panel of local ecological professionals. This is a non-statutory designation, although SINCs are still afforded a high level of protection within the planning system. Development that negatively impacts on a SINC will only be permitted in exceptional circumstances and where mitigation can be proven from the beginning. Sites of Borough Importance (grade 2) are selected from candidates within each borough, so ensuring that borough has some sites identified.	Greenspace Information for Greater London (GiGL)	GiGL data (2013).
Site of Importance for Nature Conservation (SINC)	Also known as Local Wildlife Sites, these sites have a 'substantive nature conservation value'. They are defined areas, identified and selected locally for their nature conservation value, based on important, distinctive and threatened habitats and species with a national, regional and (importantly) a local context.	EcoRecord	Licensed in accordance with PSMA Crown Copyright and database rights 2012 Ordnance Survey Licence Number 1000049190.
Site of Local Importance for Nature Conservation (SLINC)	Also known as Local Wildlife Sites, these sites have a 'substantive nature conservation value'. They are defined areas, identified and selected locally for their nature conservation value, based on important, distinctive and threatened habitats and species with a national, regional and (importantly) a local context. The system in operation in London identifies three grades of SINC: Sites of Metropolitan Importance (SMI); Sites of Borough Importance (SBI); and Sites of Local Importance (SLI).	EcoRecord Greenspace Information for Greater London (GiGL)	Licensed in accordance with PSMA Crown Copyright and database rights 2012 Ordnance Survey Licence Number 1000049190. GiGL data (2013).
Site of Metropolitan Importance for Nature Conservation (SMI)	Sites of Metropolitan Importance are selected on a London-wide basis. These come under the umbrella designation of SINCs which are designated by a panel of local ecological professionals. This is a non-statutory designation, although SINCs are still afforded a high level of protection within the planning system. Development that negatively impacts on a SINC will only be permitted in exceptional circumstances and where mitigation can be proven from the beginning. Sites of Metropolitan Importance are selected on a London-wide basis.	Greenspace Information for Greater London (GiGL)	Licensed in accordance with PSMA Crown Copyright and database rights 2012 Ordnance Survey Licence Number 1000049190. GiGL data (2013).
Site of Special Scientific Interest (SSSI)	A Site of Special Scientific Interest (SSSI) is the land notified as an SSSI under the Wildlife and Countryside Act (1981), as amended.	Natural England	© Natural England copyright 2013 Contains Ordnance Survey data © Crown copyright and database right 2013. All rights reserved. Ordnance Survey Licence number 100022021. http://www.naturalengland.org.uk/Images/open-government-licence-NE-OS_tcm6-30743.pdf
Terrestrial invertebrate: Terrestrial invertebrate survey extent	Extent of terrestrial invertebrate survey.	High Speed Two (HS2) Ltd	
Water body	Based on Ordnance Survey Vector Map District.	Ordnance Survey	© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.
Water vole: Water vole survey undertaken – presence confirmed Water vole survey undertaken – assumed absent Watercourse potentially suitable for water vole – no or limited access for survey	Extent of water vole survey. Those areas where access was available either had confirmed presence or water voles were assumed absent.	High Speed Two (HS2) Ltd	
Watercourse	The Detailed River Network (DRN) is the only large-scale, accurate and fully attributed digital river centreline covering England and Wales.	Environment Agency	Contains Environment Agency information © Environment Agency and database right.

Legend features	Definition	Source	Copyright
White clawed crayfish: Manual search and/or trapping conducted and presence confirmed Manual search and/or trapping conducted and assumed absent Site identified as potentially suitable but no access available	Location where white clawed crayfish survey was conducted. Location categorised as to whether presence was confirmed, assumed absent or no access was available.	High Speed Two (HS2) Ltd	
Wintering and passage birds - protection status: Species listed on Annex 1 of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act Species listed on Annex 1 of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act Species listed on Birds of Conservation Concern list relevant to assessment – see Volume 5 Appendices Other notable species relevant to assessment – see Volume 5 Appendices	Field survey records of selected protected and/or notable wintering birds that are considered most relevant in considering the impacts of the Proposed Scheme.	High Speed Two (HS2) Ltd	
Wintering and passage birds - survey extent	Area where wintering and passage birds survey was conducted.	High Speed Two (HS2) Ltd	
Woodland (not verified by survey) Woodland (verified by survey)	Woodland areas derived from Ordnance Survey mastermap data.	Ordnance Survey	© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.

LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

EC-01 – Designated Sites

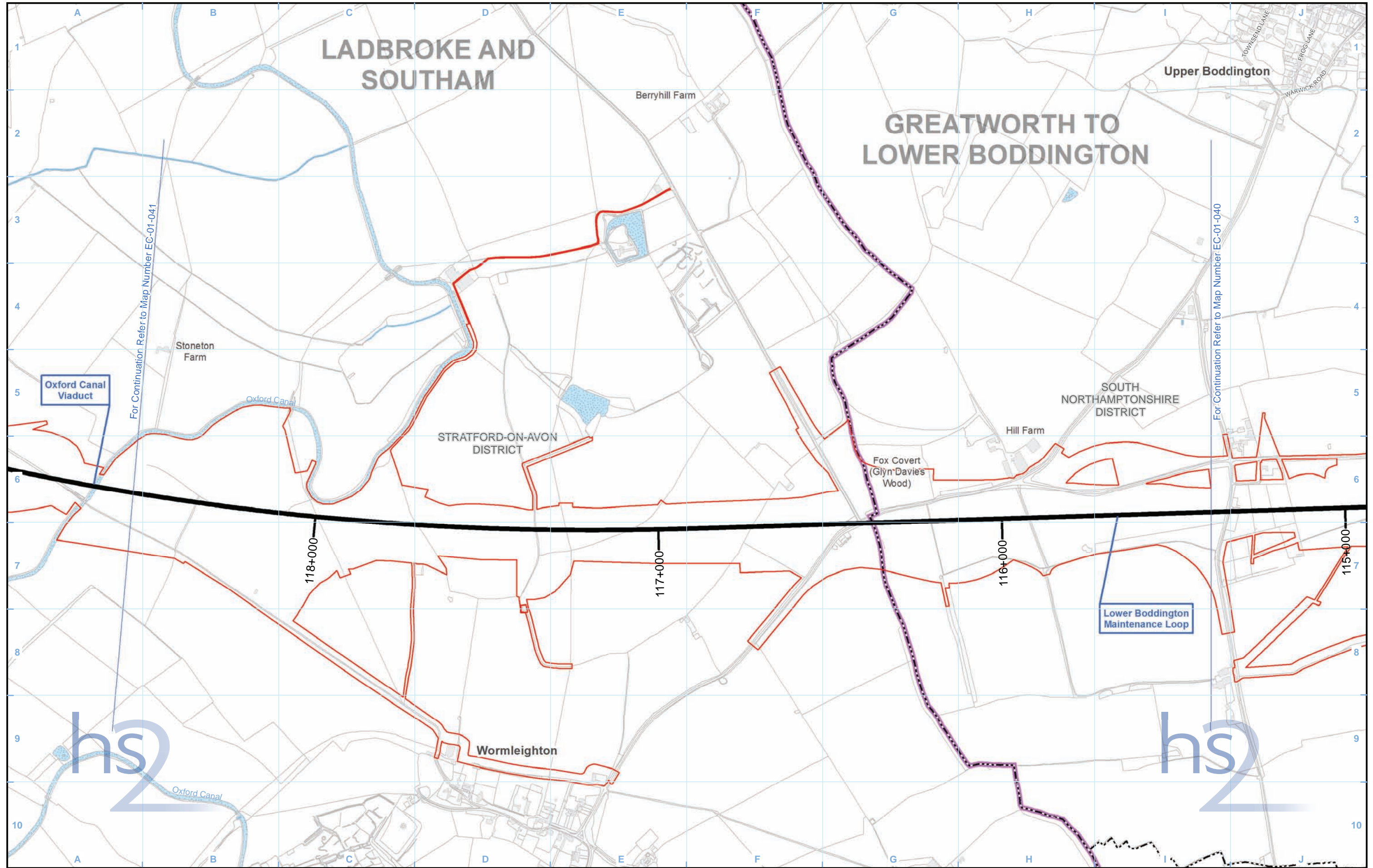


Map Series Information:

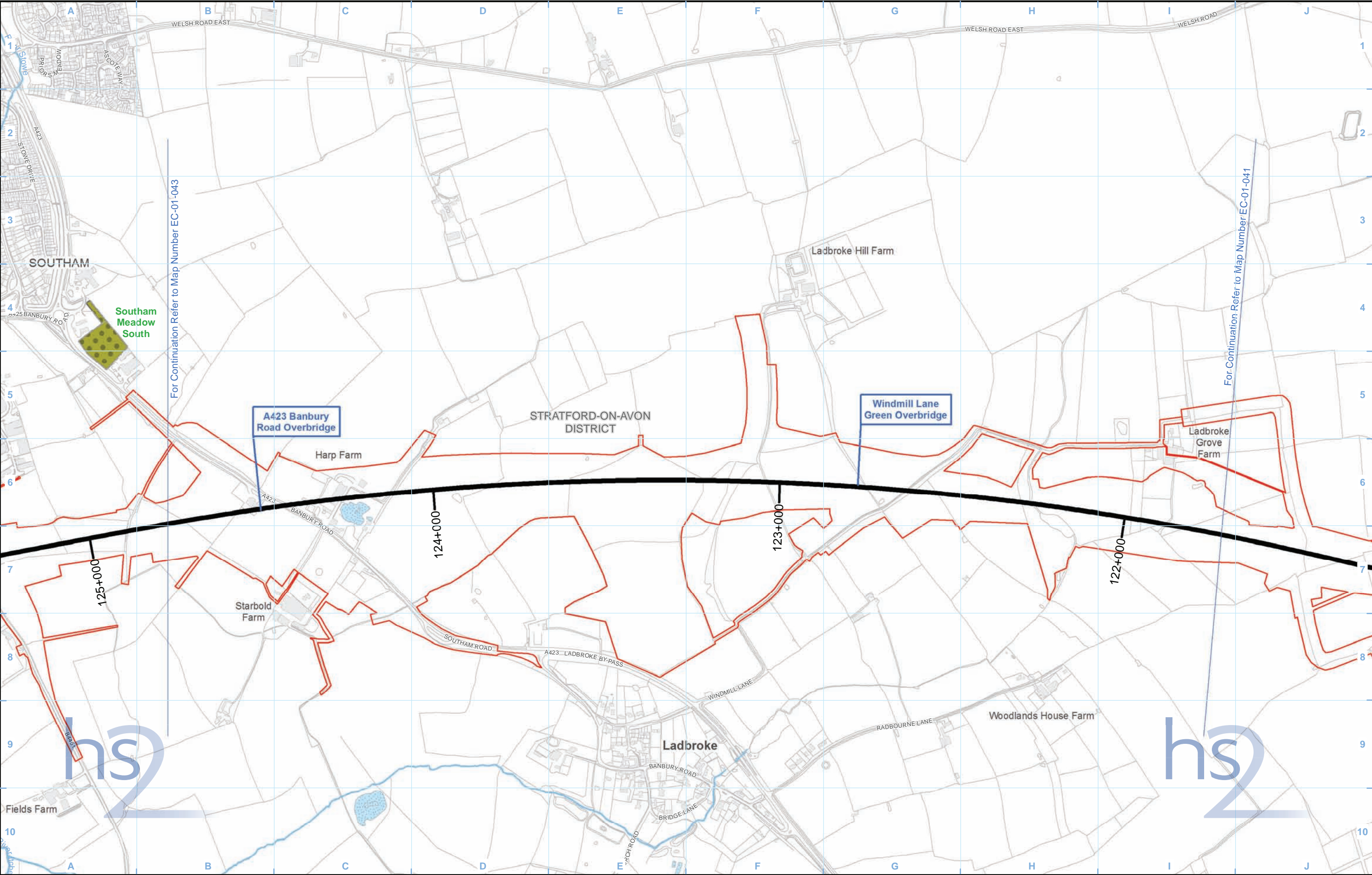
This map series shows statutory and non-statutory sites for nature conservation located in the vicinity of the land required for the construction of the Proposed Scheme. They also show the location of Nature Reserves of the RSPB and Wildlife Trusts, and ancient woodland.

Note: Not all data layers in the legend are represented on every map.

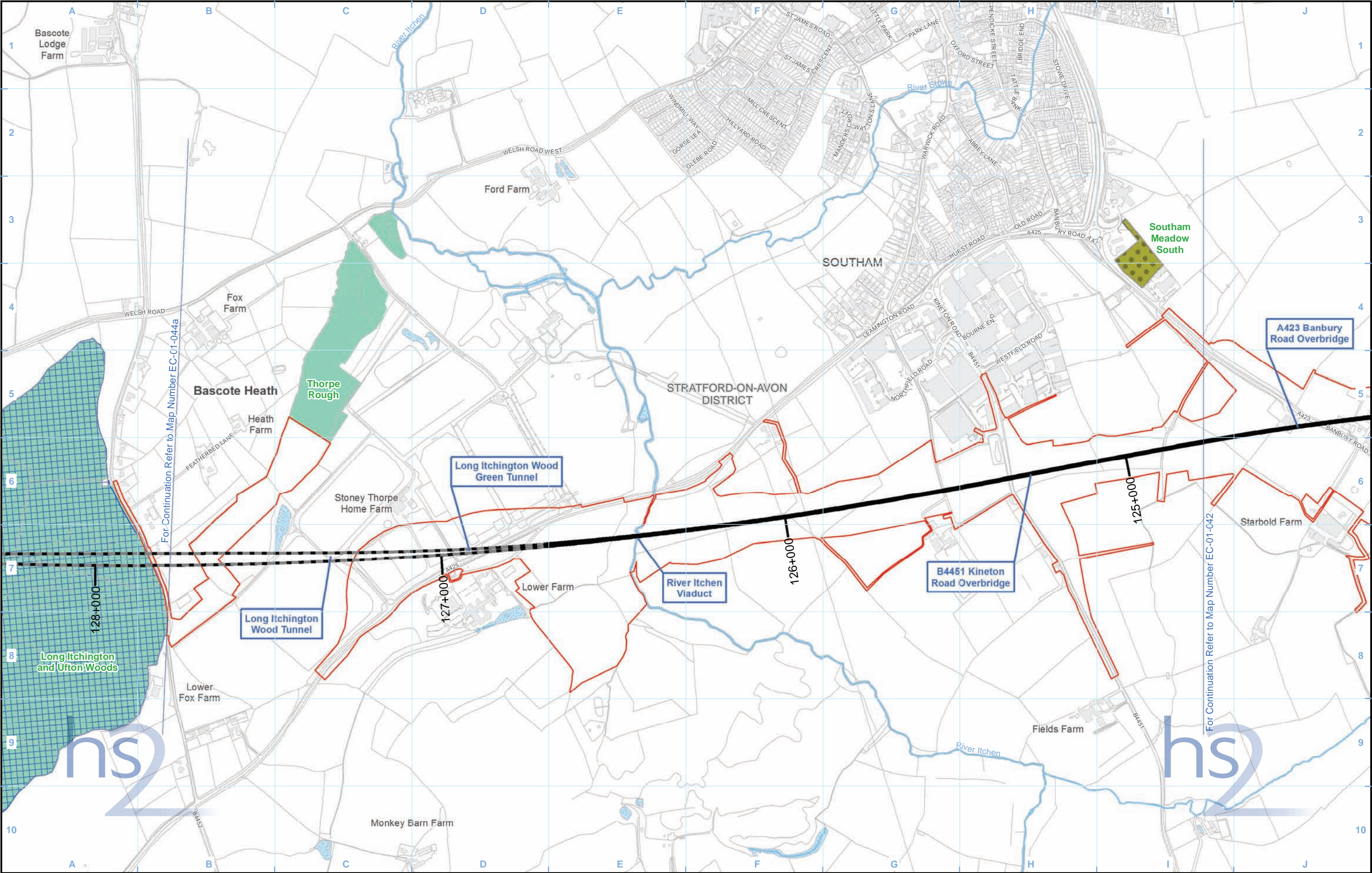
Main Map Legend <ul style="list-style-type: none">Route in tunnelRoute on surfaceDepot, station, headhouse or portal buildingCommunity forum boundaryExisting railway stationCounty boundaryDistrict/Borough boundary	<ul style="list-style-type: none">Map sheets included in this community forumMap sheets not included in this community forum	Map Number EC-01-INDEX-CFA16	<p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p> <p>Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU.</p> <p>© Crown copyright and database rights 2013 Ordnance Survey Licence Number 100049190.</p> <p>Scale at A3: 1:65,000</p> <p>0 650 1,300 1,950 2,600 Metres</p> <p>Doc Number: C253-ATK-EV-MAP-030-001165-P06.00 Date: 25/10/13</p>
Index Map of: Designated Sites		Community Forum Area CFA16: Ladbroke and Southam	



Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community forum boundary County boundary	District/Borough boundary Watercourse Water body Site of Special Scientific Interest (SSSI) Local Nature Reserve (LNR) Local Wildlife Site (LWS) Site of Biological Importance (SBI)	Biodiversity Alert Site (BAS) Site of Importance for Nature Conservation (SINC) Site of Local Importance to Nature Conservation (SLINC) Nature reserve Ancient woodland	N.B. Due to the overlapping nature of some ecological designations, and the range of different site designations that occur across the route, individual designations may on occasion be obscured. In all cases where an area of land is covered by more than one ecological designation, as a minimum the ecological designation of highest value is visible.	Map Number EC-01-040b	 Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU. © Crown copyright and database rights 2013. Ordnance Survey Licence Number 100049190. Doc Number: C253-ATK-EV-MAP-030-000309-P06.00	 Scale at A3: 1:10,000 0 100 200 300 400 Metres Date: 24/10/13
				Map Name Designated Sites		



Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community forum boundary County boundary District/Borough boundary Watercourse Water body Site of Special Scientific Interest (SSSI) Local Nature Reserve (LNR) Local Wildlife Site (LWS) Site of Biological Importance (SBI) Biodiversity Alert Site (BAS) Site of Importance for Nature Conservation (SINC) Site of Local Importance to Nature Conservation (SLINC) Nature reserve Ancient woodland	<p>N.B. Due to the overlapping nature of some ecological designations, and the range of different site designations that occur across the route, individual designations may on occasion be obscured. In all cases where an area of land is covered by more than one ecological designation, as a minimum the ecological designation of highest value is visible.</p>	<p>Map Number EC-01-042</p> <p>Map Name Designated Sites</p> <p>Community Forum Area CFA16: Ladbroke and Southam</p>	<p>hs2</p> <p>Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU.</p> <p>© Crown copyright and database rights 2013. Ordnance Survey Licence Number 100049190.</p> <p>Doc Number: C253-ATK-EV-MAP-030-000311-P06.00</p> <p>Date: 24/10/13</p> <p>Scale at A3: 1:10,000</p> <p>0 100 200 300 400 Metres</p>
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Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community forum boundary
- County boundary

- District/Borough boundary
- Watercourse
- Water body
- Site of Special Scientific Interest (SSSI)
- Local Nature Reserve (LNR)
- Local Wildlife Site (LWS)
- Site of Biological Importance (SBI)

- Biodiversity Alert Site (BAS)
- Site of Importance for Nature Conservation (SINC)
- Site of Local Importance to Nature Conservation (SLINC)
- Nature reserve
- Ancient woodland

N.B. Due to the overlapping nature of some ecological designations, and the range of different site designations that occur across the route, individual designations may on occasion be obscured. In all cases where an area of land is covered by more than one ecological designation, as a minimum the ecological designation of highest value is visible.

Map Number

EC-01-043

Map Name

Designated Sites

Community Forum Area CFA16:
Ladbroke and Southam

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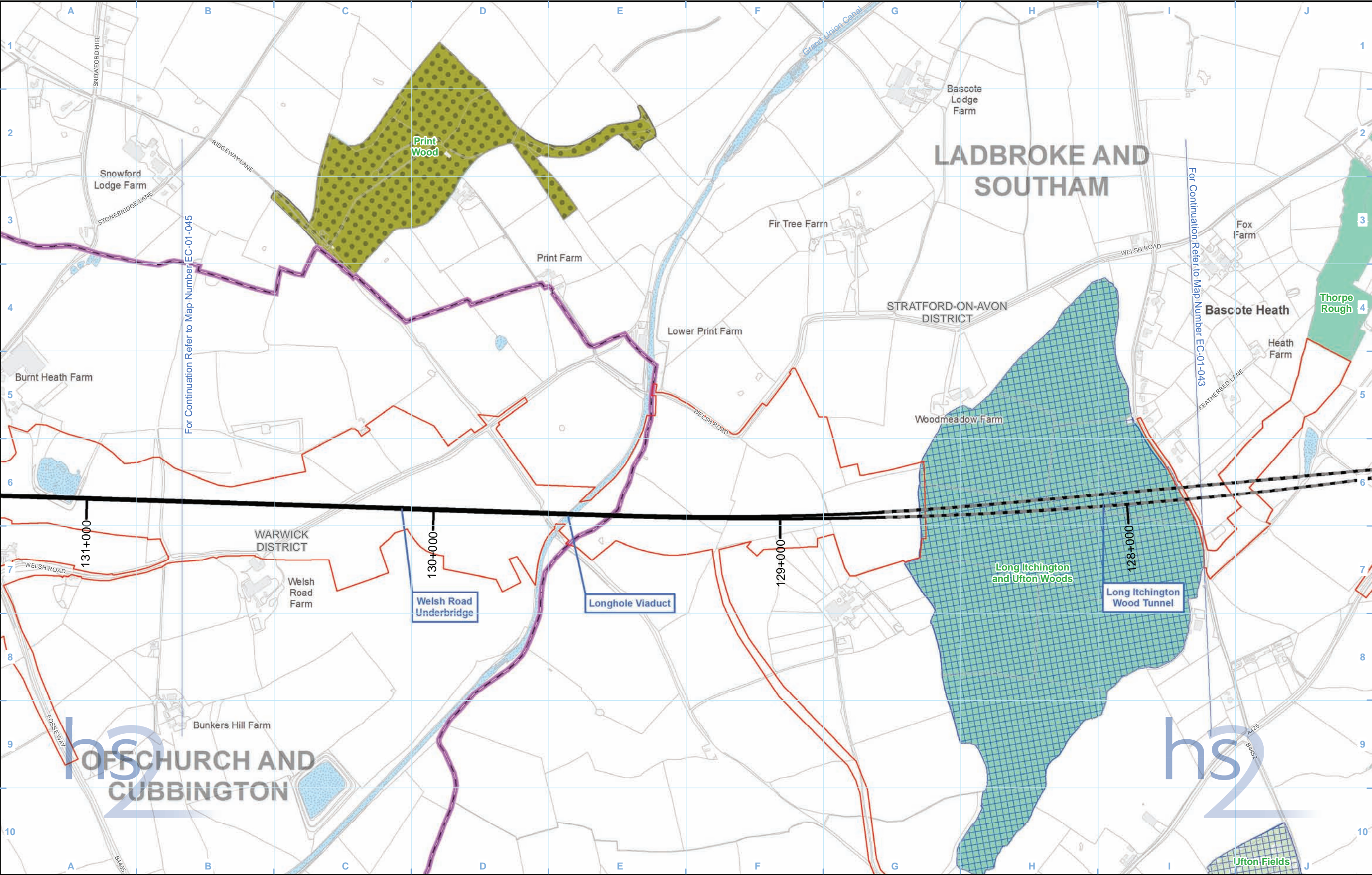
Doc Number: C253-ATK-EV-MAP-030-000312-P06.00

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Scale at A3: 1:10,000

0 100 200 300 400 Metres

Date: 24/10/13



Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

County boundary

District/Borough boundary

Watercourse

Water body

Site of Special Scientific Interest (SSSI)

Local Nature Reserve (LNR)

Local Wildlife Site (LWS)

Site of Biological Importance (SBI)

Biodiversity Alert Site (BAS)

Site of Importance for Nature Conservation (SINC)

Site of Local Importance to Nature Conservation (SLINC)

Nature reserve

Ancient woodland

N.B. Due to the overlapping nature of some ecological designations, and the range of different site designations that occur across the route, individual designations may on occasion be obscured. In all cases where an area of land is covered by more than one ecological designation, as a minimum the ecological designation of highest value is visible.

Map Number

EC-01-044a

Map Name

Designated Sites

Community Forum Area CFA16:

Ladbroke and Southam

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Scale at A3: 1:10,000

0

100

200

300

400

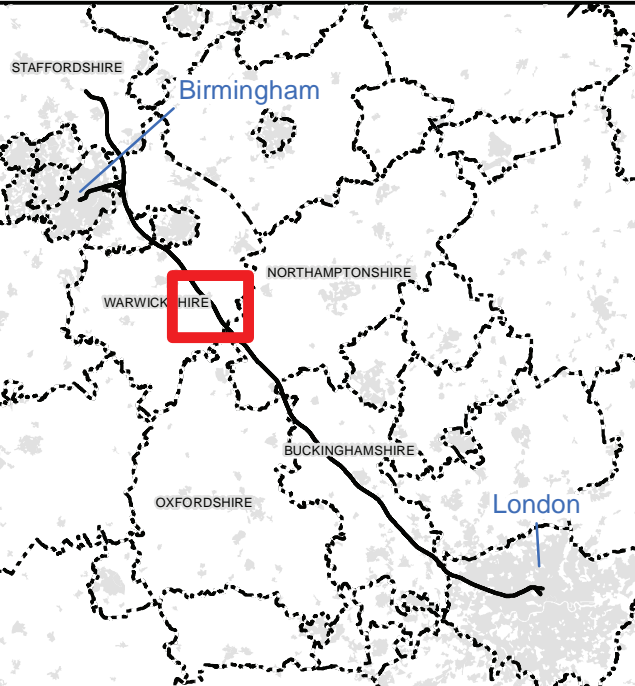
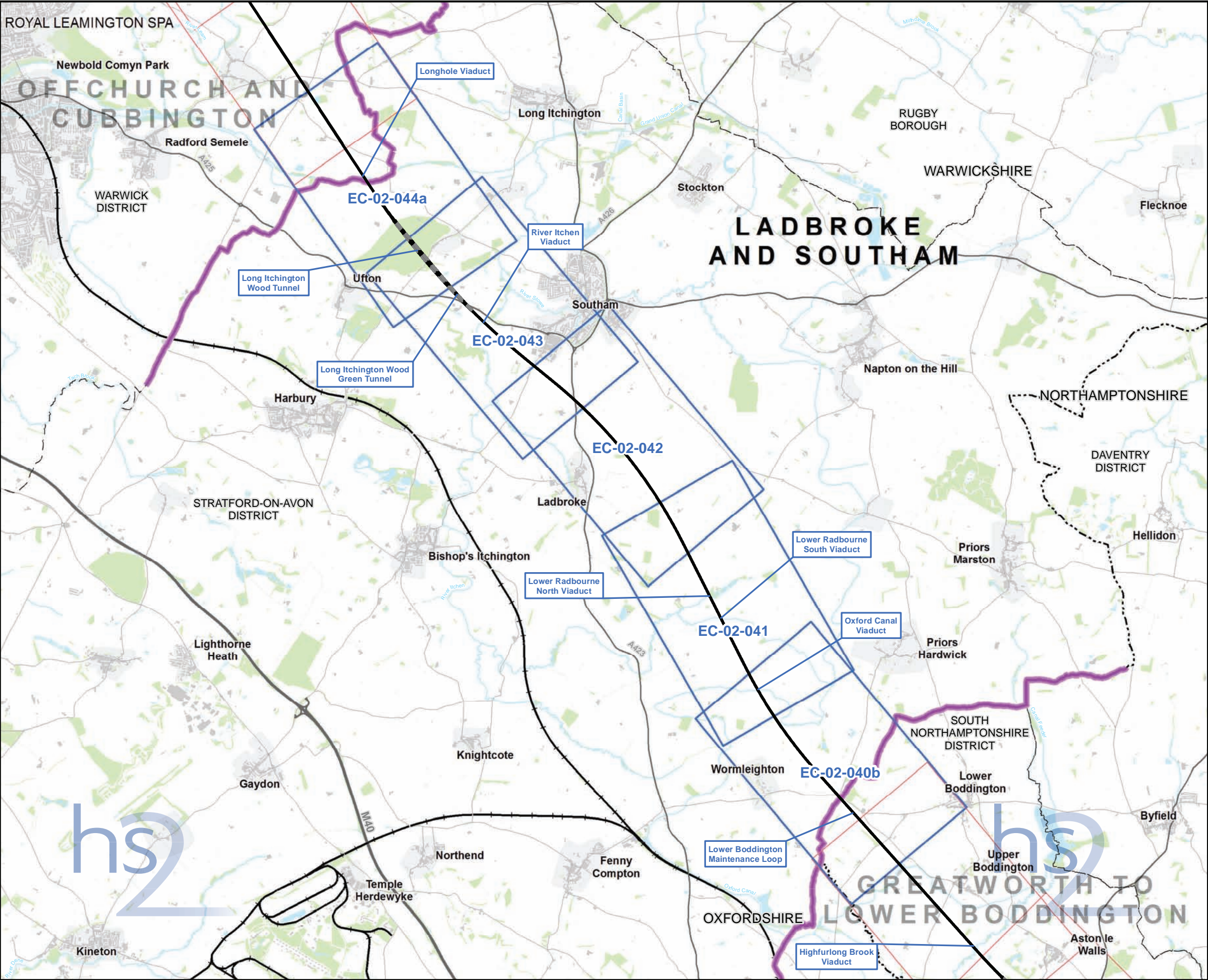
Metres

Date: 24/10/13

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LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

EC-02 – Phase 1 Habitat (1:10,000)




Map Series Information:

This map series shows Phase 1 habitat survey information for land required and in the vicinity of the Proposed Scheme at a scale of 1:10,000. Where it has not been possible to gain access for field survey, the information is based on available desk study and interpretation of aerial photography.

- Main Map Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community forum boundary
 - Existing railway station
 - County boundary
 - District/Borough boundary
 - Map sheets included in this community forum
 - Map sheets not included in this community forum

Map Number	EC-02-INDEX-CFA16
Map Name	Index Map of: Phase 1 Habitat (1:10,000)
Community Forum Area CFA16: Ladbroke and Southam	




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Doc Number: C253-ATK-EV-MAP-030-001172-P06.00



Scale at A3: 1:65,000






















0 650 1,300 1,950 2,600
Metres

Date: 25/10/13



















Phase 1 Habitat survey legend

Habitat Areas





	Broadleaved woodland - semi-natural		Poor semi-improved grassland
	Broadleaved woodland - plantation		Bracken - continuous
	Coniferous woodland - semi-natural		Bracken - scattered
	Coniferous woodland - plantation		Upland species-rich ledges
	Mixed woodland - semi-natural		Other tall herb and fern - ruderal
	Mixed woodland - plantation		Other tall herb and fern - non ruderal
	Scrub - dense/continuous		Dry dwarf shrub heath - acid
	Scrub - scattered		Lichen/bryophyte heath
	Broadleaved parkland/scattered trees		Wet modified bog
	Coniferous parkland/scattered trees		Fen - valley mire
	Mixed parkland/scattered trees		Swamp
	Broadleaved woodland - recently felled		Marginal and inundation - inundation vegetation
	Mixed woodland - recently felled		Standing water
	Acid grassland - unimproved		Standing water - eutrophic
	Acid grassland - semi-improved		Standing water - mesotrophic
	Neutral grassland - unimproved		Running water
	Neutral grassland - semi-improved		Limestone pavement
	Calcareous grassland - unimproved		Other exposure - basic
	Calcareous grassland - semi-improved		Cave
	Improved grassland		Quarry
	Marsh/marshy grassland		

	Spoil
	Refuse-tip
	Cultivated/disturbed land - arable
	Cultivated/disturbed land - amenity grassland
	Cultivated/disturbed land - ephemeral/short perennial
	Introduced shrub
	Intact hedge - native species-rich
	Intact hedge - species-poor
	Defunct hedge - native species-rich
	Defunct hedge - species-poor
	Hedge with trees - native species-rich
	Hedge with trees - species-poor
	Fence
	Wall
	Dry ditch
	Boundary removed
	Earth bank
	Caravan site
	Buildings
	Bare ground
	Other habitat

Linear Habitats

	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees
	Mixed parkland/scattered trees
	Upland species-rich ledges
	Marginal and inundation - marginal vegetation
	Running water
	Intact hedge - native species-rich
	Intact hedge - species-poor
	Defunct hedge - native species-rich
	Defunct hedge - species-poor
	Hedge with trees - native species-rich
	Hedge with trees - species-poor
	Fence
	Wall
	Dry ditch
	Boundary removed
	Earth bank

Point Habitats

	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees
	Bracken - scattered

Map Name
EC-02 - Legend

Map Name
EC-02 - Phase 1 Habitat Survey
Legend

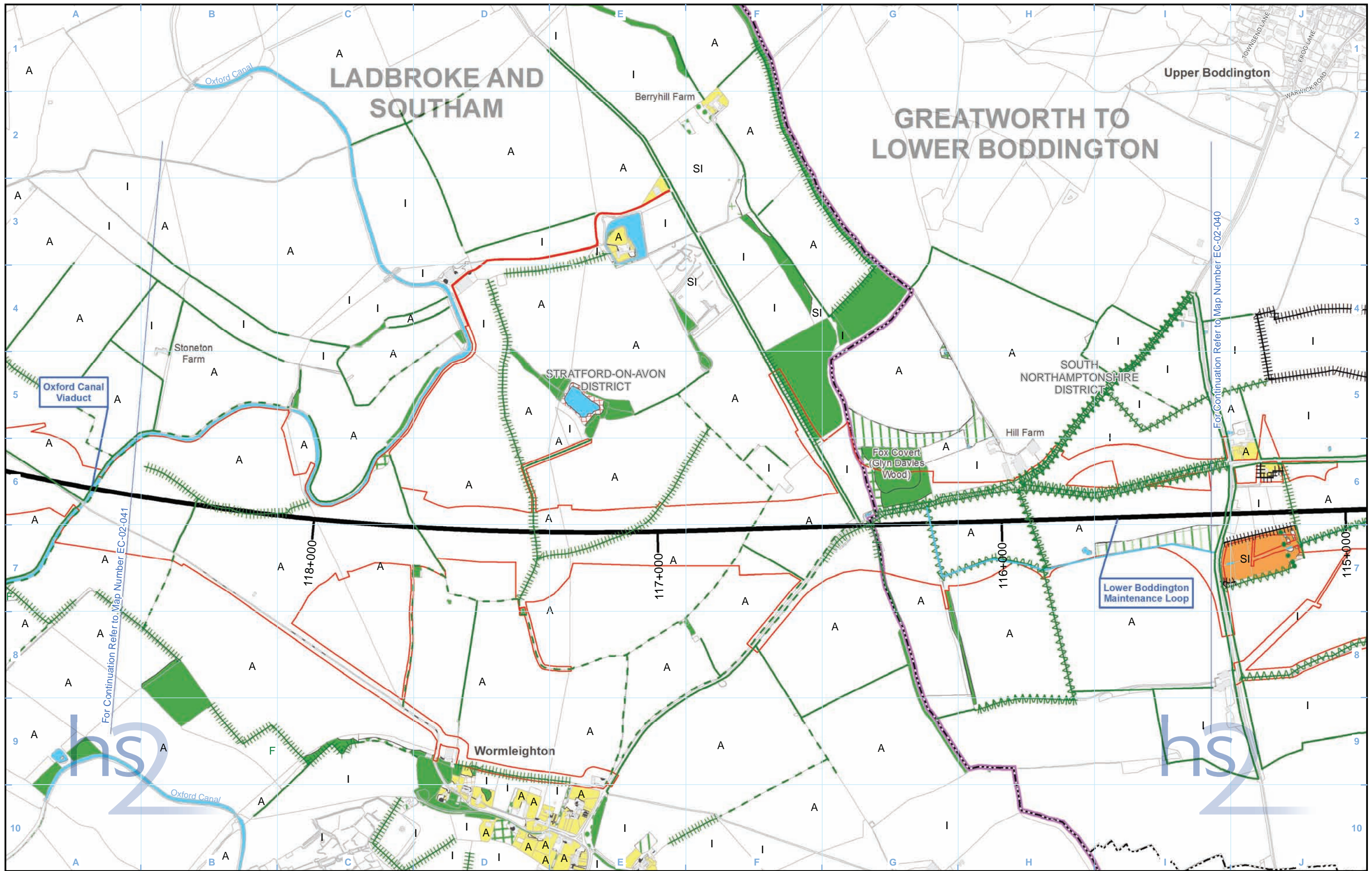


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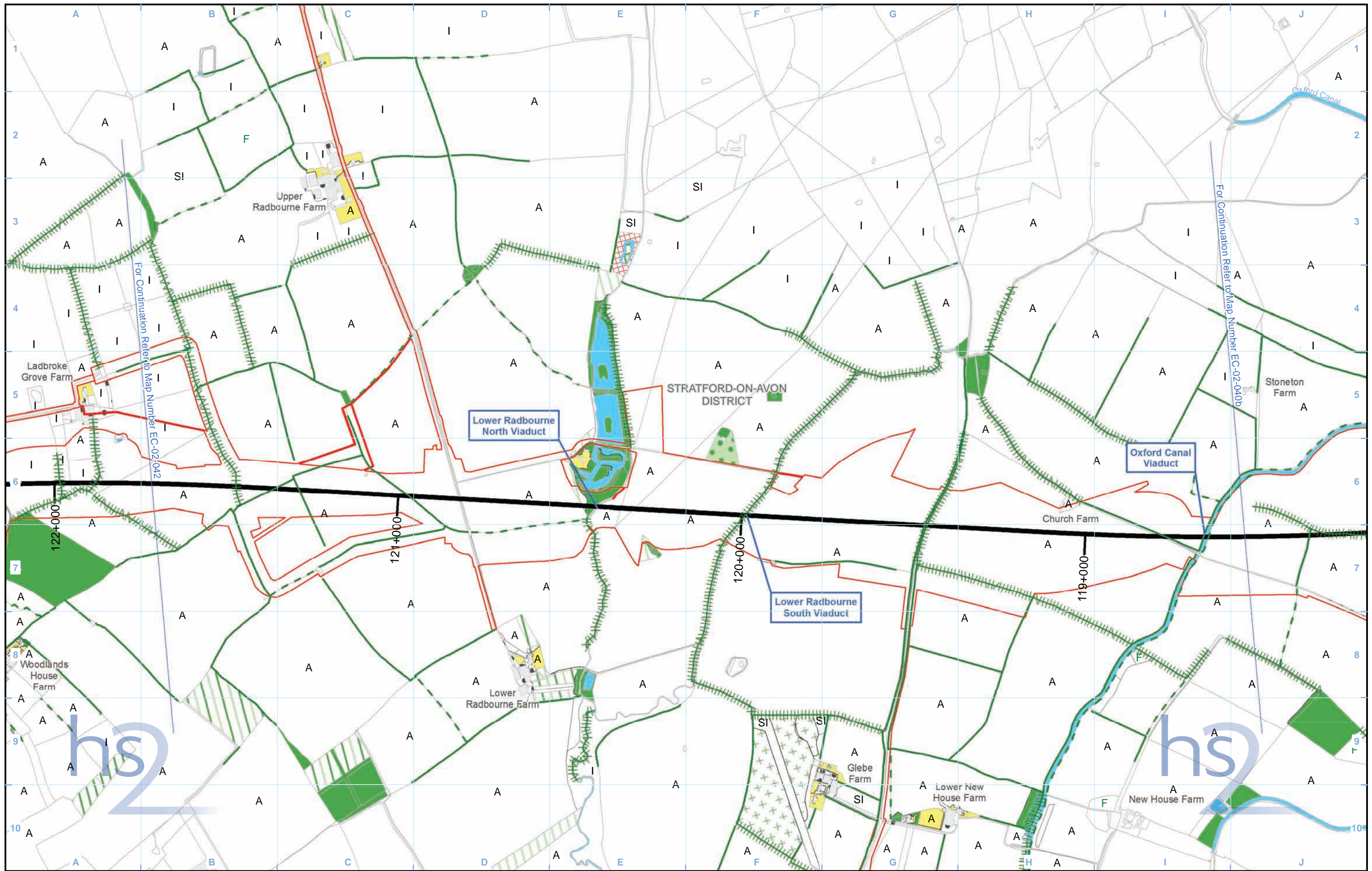
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Doc Number: C250-ARP-EV-MAP-000-004054

Date: 26/09/13



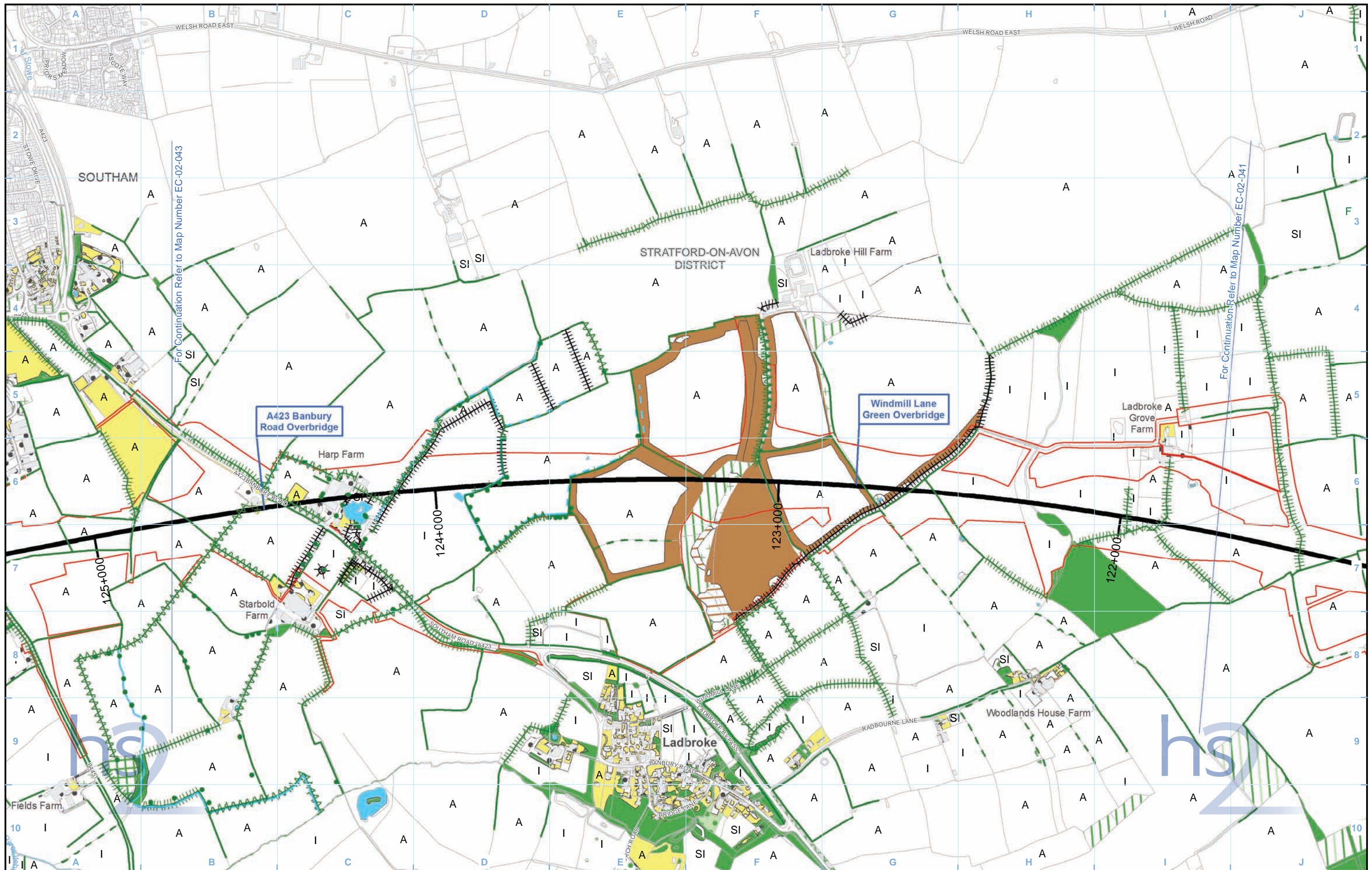
Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community forum boundary County boundary District/Borough boundary	For full legend please refer to EC-02 Legend page	
	Map Number	EC-02-040b
	Map Name	Phase 1 Habitat (1:10,000)
	Community Forum Area CFA16: Ladbroke and Southam	
 Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU. © Crown copyright and database rights 2013. Ordnance Survey Licence Number 100049190.		 Scale at A3: 1:10,000 0 100 200 300 400 Metres Date: 25/10/13
Doc Number: C253-ATK-EV-MAP-030-000318-P06.00		



Legend <ul style="list-style-type: none">Route in tunnelRoute on surfaceDepot, station, headhouse or portal buildingLand potentially required during constructionCommunity forum boundaryCounty boundaryDistrict/Borough boundary	For full legend please refer to EC-02 Legend page	Map Number EC-02-041	<p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p> <p>Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU.</p> <p>© Crown copyright and database rights 2013. Ordnance Survey Licence Number 100049190.</p> <p>Doc Number: C253-ATK-EV-MAP-030-000319-P06.00</p>
		Map Name Phase 1 Habitat (1:10,000)	
		Community Forum Area CFA16: Ladbroke and Southam	

Scale at A3: 1:10,000

Date: 25/10/13



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community forum boundary
- County boundary
- District/Borough boundary

For full legend please refer to EC-02 Legend page

Map Number	EC-02-042
Map Name	Phase 1 Habitat (1:10,000)
Community Forum Area CFA16: Ladbroke and Southam	

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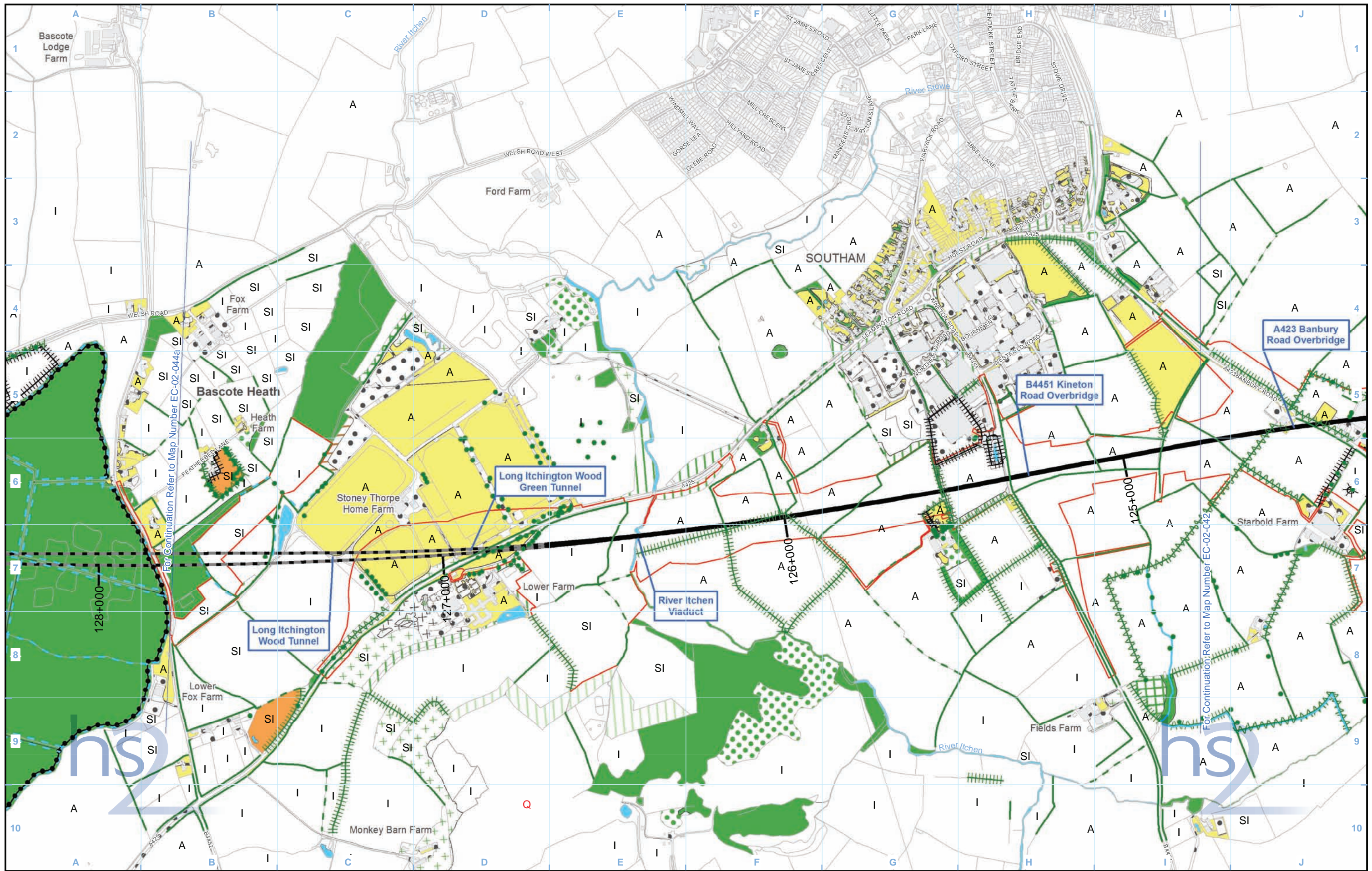
Doc Number: C253-ATK-EV-MAP-030-000320-P06.00

Date: 25/10/13

Scale at A3: 1:10,000

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Metres

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Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community forum boundary
- County boundary
- District/Borough boundary

For full legend please refer to EC-02 Legend page

Map Number	EC-02-043
Map Name	Phase 1 Habitat (1:10,000)
Community Forum Area CFA16: Ladbroke and Southam	




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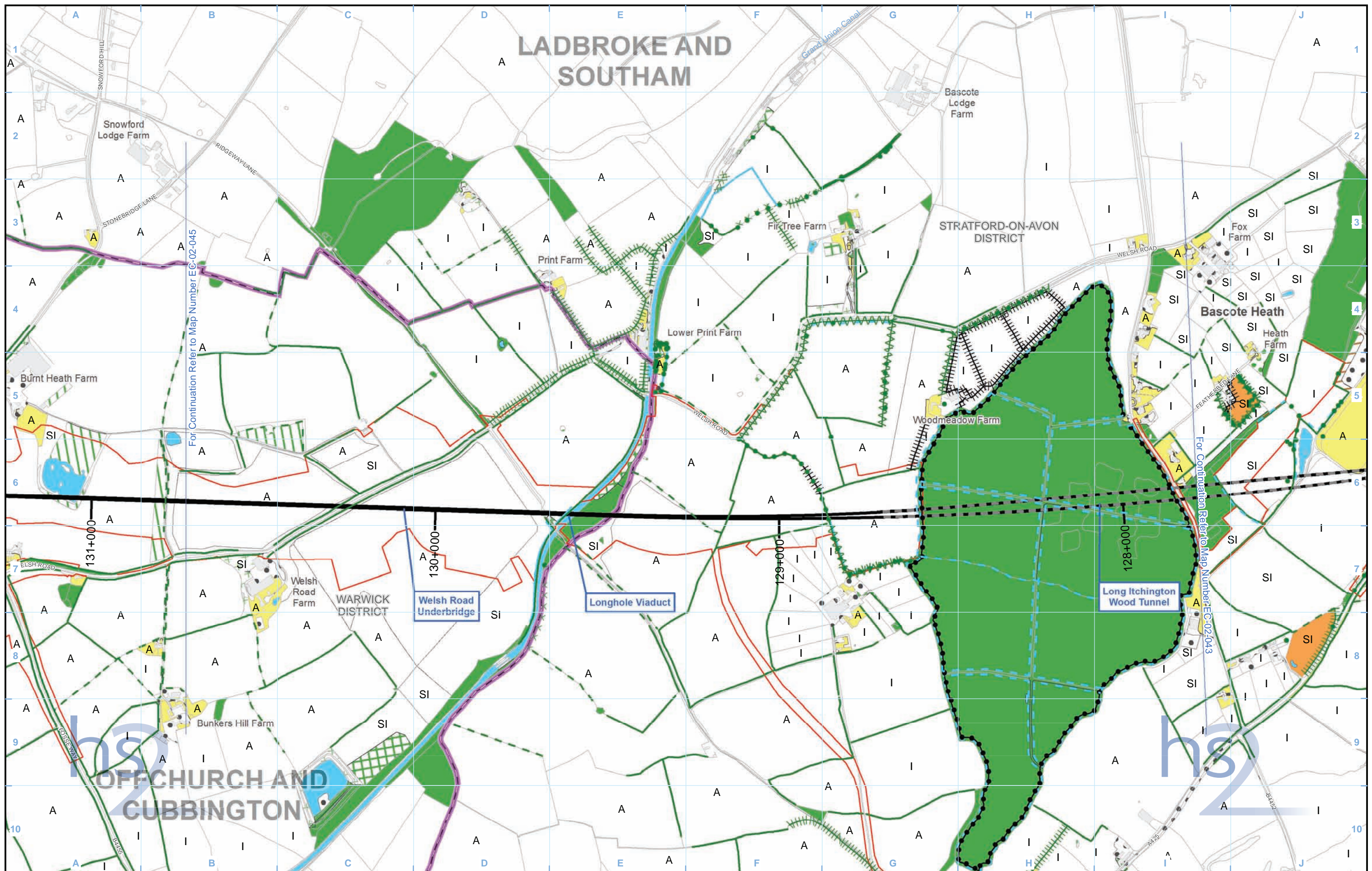


Scale at A3: 1:10,000



0 100 200 300 400 Metres

Date: 25/10/13



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community forum boundary
- County boundary
- District/Borough boundary

For full legend please refer to EC-02 Legend page

Map Number
EC-02-044a

Map Name
**Phase 1 Habitat
(1:10,000)**

Community Forum Area CFA16:
Ladbroke and Southam

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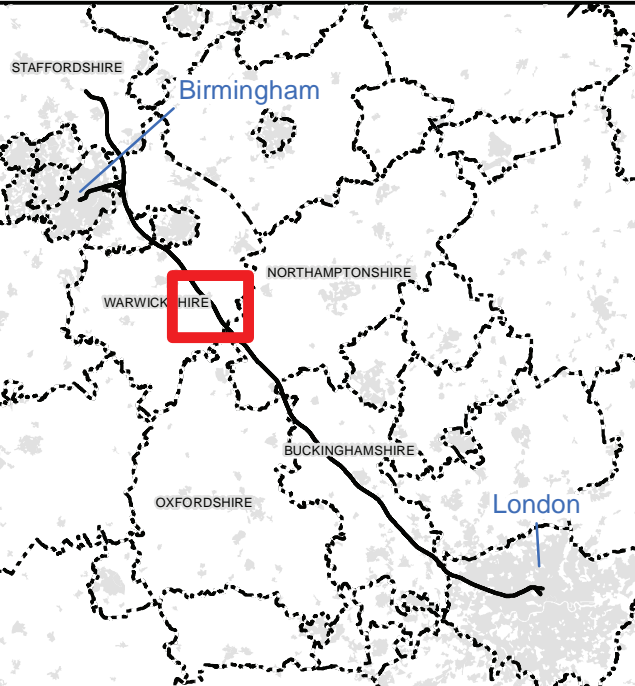
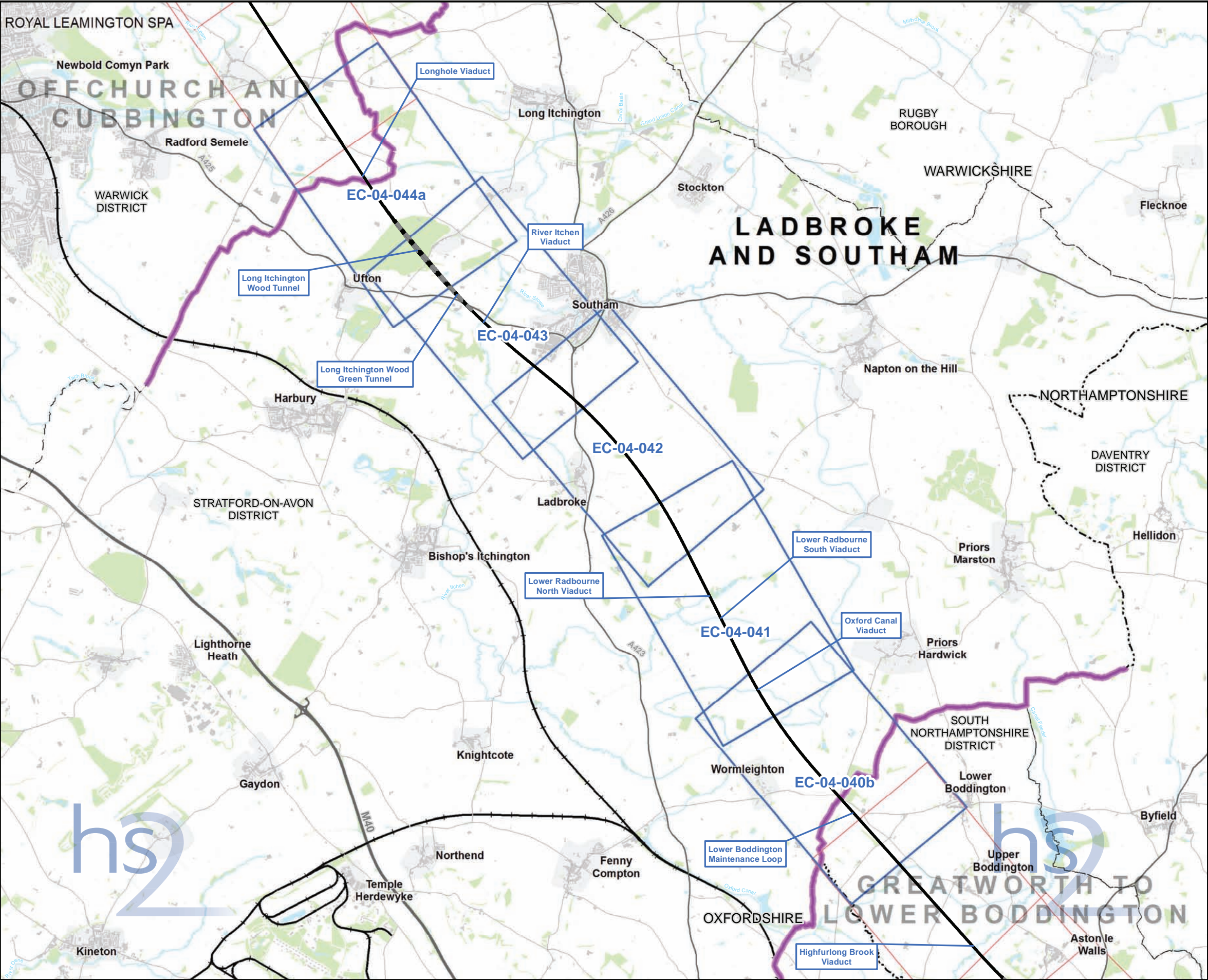
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Doc Number: C253-ATK-EV-MAP-030-000322-P06.00

Date: 25/10/13

LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

EC-04 – Amphibians



Map Series Information:

This map series shows the results of amphibian surveys conducted to inform the Environmental Assessment. It principally details the results of great crested newt surveys conducted. In addition it shows the location of those 'exceptional' populations of common amphibians recorded.

Note: Not all data layers in the legend are represented on every map.

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Community forum boundary

Existing railway station

County boundary

District/Borough boundary

Map sheets included in this community forum

Map sheets not included in this community forum

Map Number

Map Name

Community Forum Area CFA16:
Ladbroke and Southam

Map Number

Map Name

Community Forum Area CFA16:
Ladbroke and Southam

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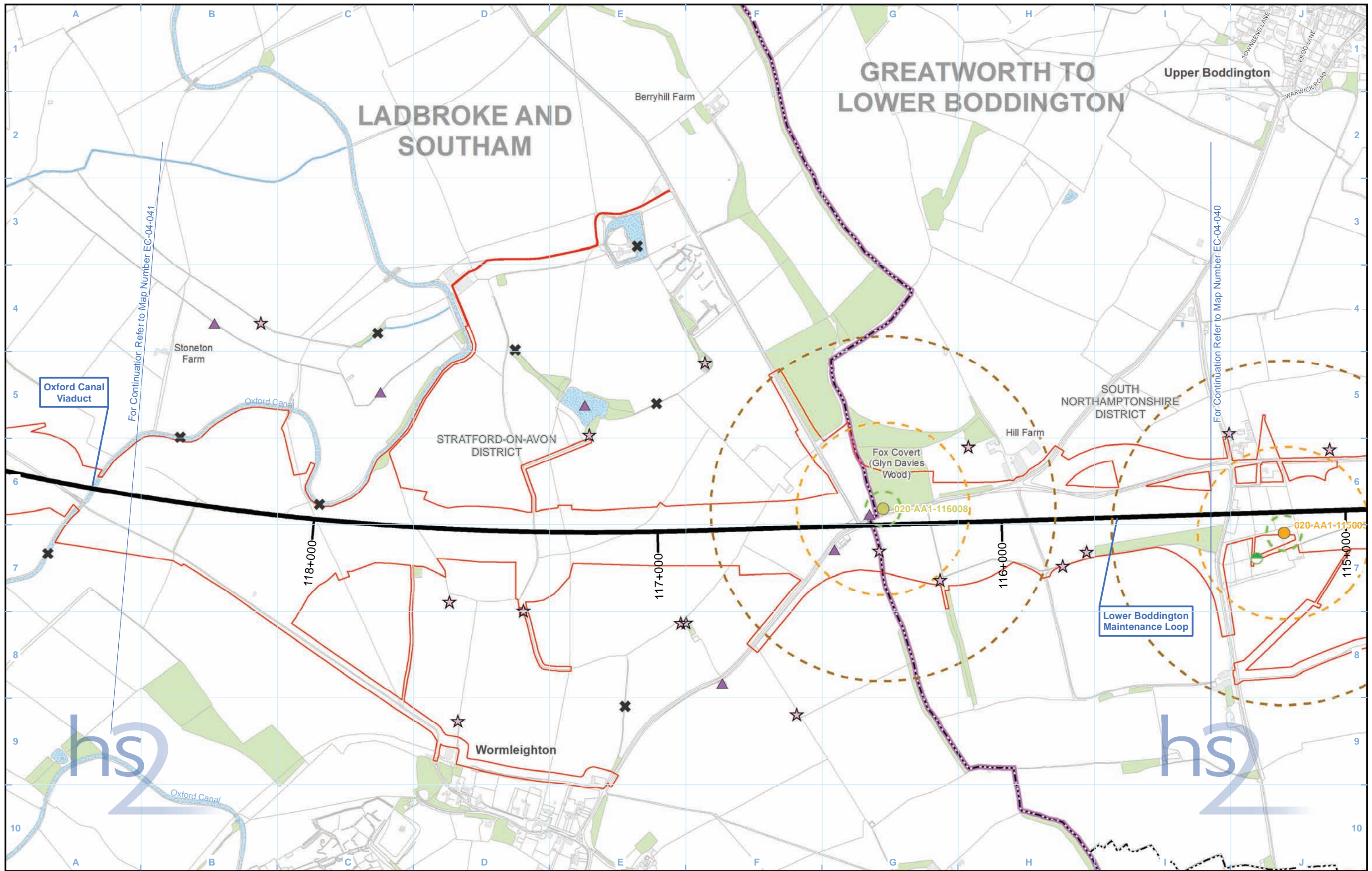
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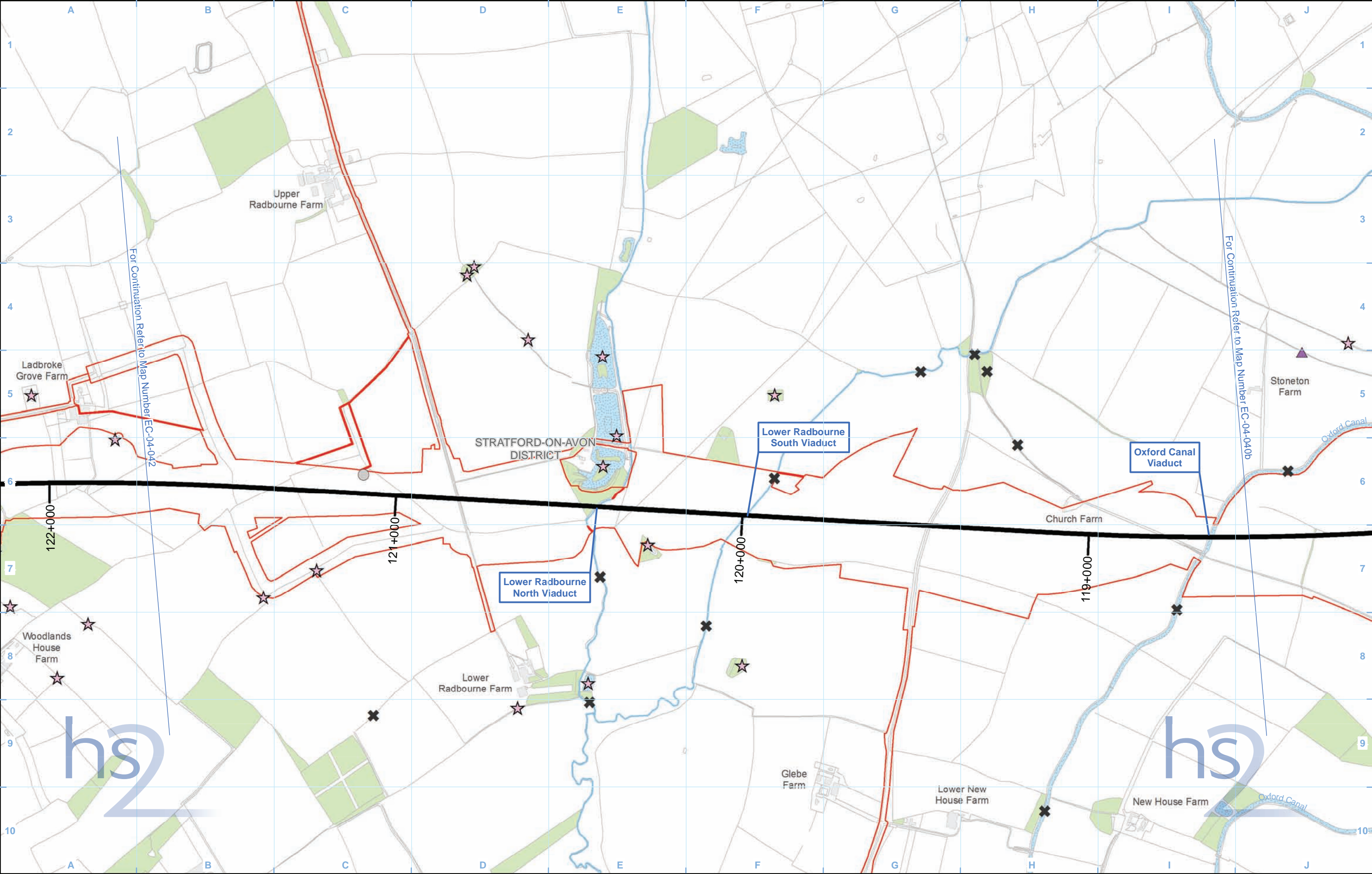
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Doc Number: C253-ATK-EV-MAP-030-001179-P06.00

Date: 25/10/13

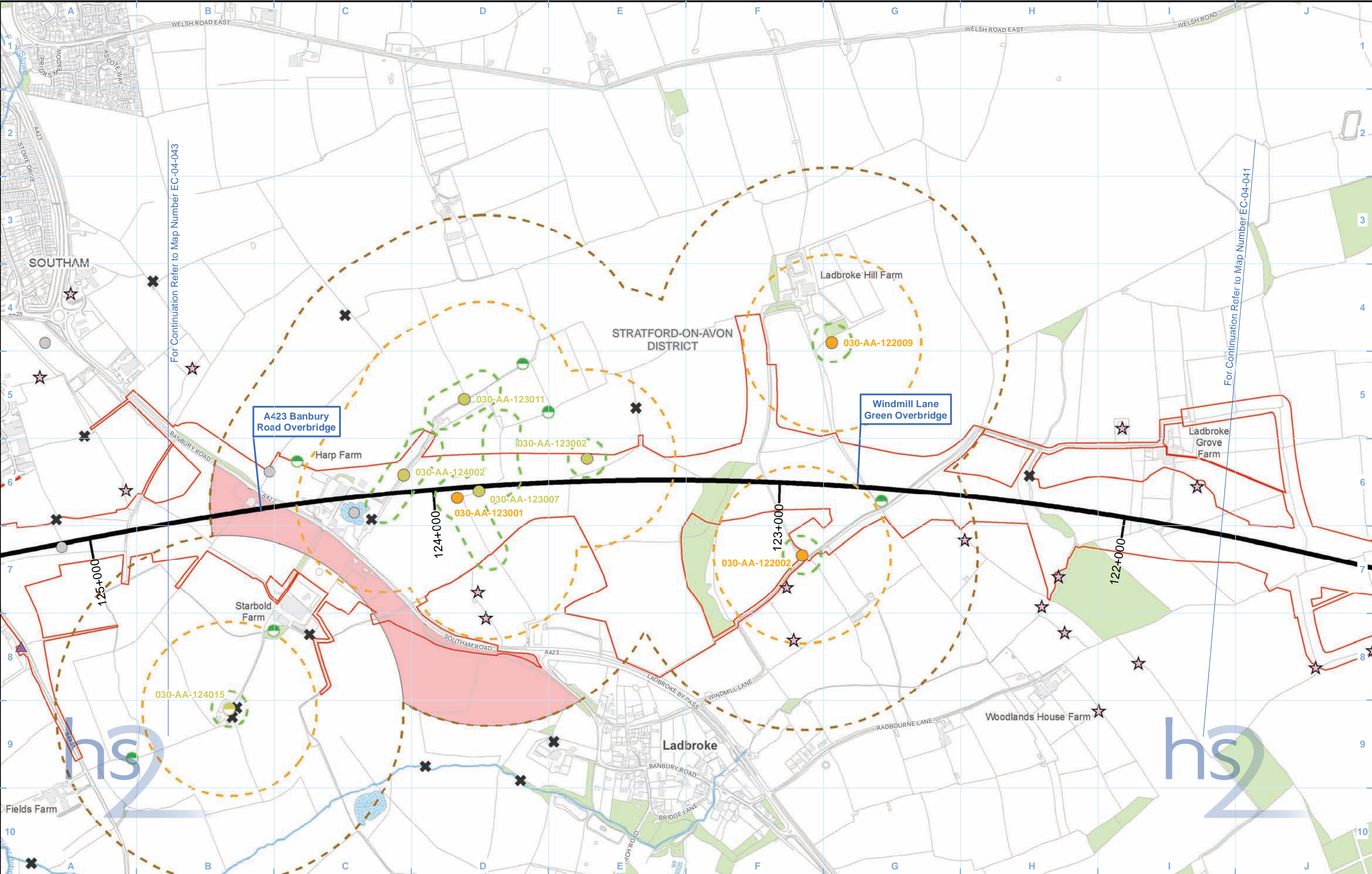


Legend		Map Number EC-04-040b	
Route in tunnel	District/Borough boundary	Map Name Amphibians	
Route on surface	Watercourse	Community Forum Area CFA16: Ladbroke and Southam	
Depot, station, headhouse or portal building	Water body	<div><div>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</div><div>Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU.</div><div>© Crown copyright and database rights 2013. Ordnance Survey Licence Number 100049190.</div><div>Doc Number: C253-ATK-EV-MAP-030-000327-P06.00</div></div>	
Land potentially required during construction	Woodland (not verified by survey)	Scale at A3: 1:10,000	
Community forum boundary	Great Crested Newts present (6 visits) - medium population (11 - 99 adults)	<div><div>0 100 200 300 400 Metres</div></div>	
County boundary	Survey complete, Great Crested Newts assumed absent	Date: 25/10/13	
	Scoped in - Habitat Suitability Index (HSI)/walkover		
	Scoped in - no access permission		
	Scoped out - no survey required		

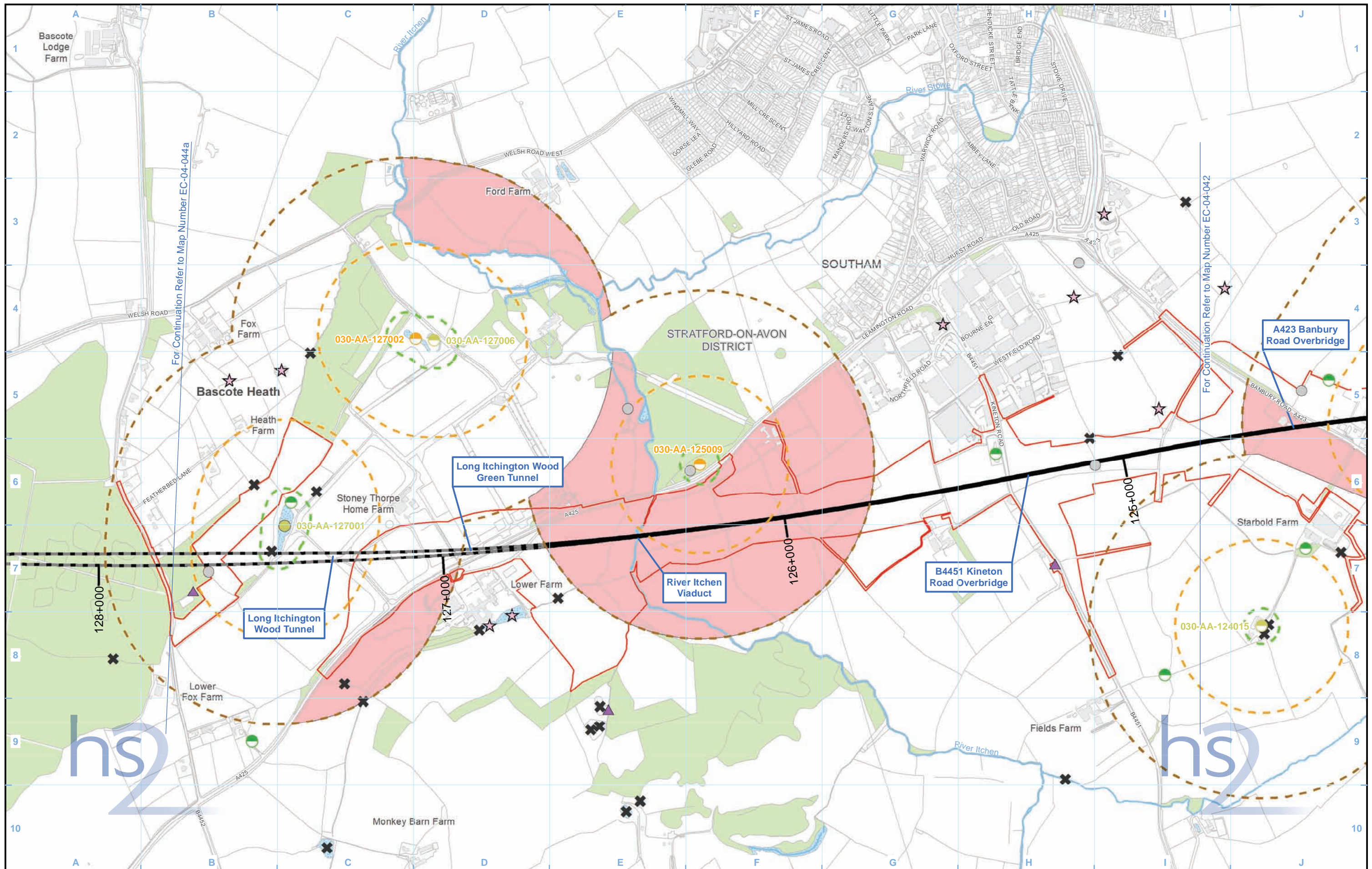


Legend		 Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU. © Crown copyright and database rights 2013. Ordnance Survey Licence Number 100049190. Doc Number: C253-ATK-EV-MAP-030-000328-P06.00	 Scale at A3: 1:10,000 0 100 200 300 400 Metres Date: 25/10/13	
 Route in tunnel	 District/Borough boundary			 Scoped in - Habitat Suitability Index (HSI)/walkover
 Route on surface	 Watercourse			 Scoped in - no access permission
 Depot, station, headhouse or portal building	 Water body	 Scoped out - no survey required		
 Land potentially required during construction	 Woodland (not verified by survey)			
 Community forum boundary	 Survey incomplete, no Great Crested Newts found			
 County boundary				

Map Number	EC-04-041
Map Name	Amphibians
Community Forum Area CFA16: Ladbroke and Southam	



Legend		Map Number EC-04-042	
Route in tunnel	County boundary	Map Name Amphibians	
Route on surface	District/Borough boundary	Community Forum Area CFA16: Ladbroke and Southam	
Depot, station, headhouse or portal building	Watercourse	<small>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</small>	
Land potentially required during construction	Water body	<small>Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU.</small>	
Community forum boundary	Woodland (not verified by survey)	<small>© Crown copyright and database rights 2013. Ordnance Survey Licence Number 100049190.</small>	
Great Crested Newts present (6 visits) - medium population (11 - 99 adults)	Great Crested Newts present (6 visits) - small population (1 - 10 adults)	Scale at A3: 1:10,000	
Great Crested Newts present (less than 6 visits) - small population (1 - 10 adults)	Survey complete, Great Crested Newts assumed absent		
Survey incomplete, no Great Crested Newts found	Scoped in - Habitat Suitability Index (HSI)/walkover	Doc Number: C253-ATK-EV-MAP-030-000329-P06.00	
Scoped in - no access permission	Scoped out - no survey required	Date: 25/10/13	
50m radius from all water bodies where presence of Great Crested Newts is confirmed	250m radius from all water bodies where presence of Great Crested Newts is confirmed		
500m radius from all water bodies where presence of Great Crested Newts is confirmed	Areas isolated by significant barriers to amphibian movement		



Legend	
<ul style="list-style-type: none">Route in tunnelRoute on surfaceDepot, station, headhouse or portal buildingLand potentially required during constructionCommunity forum boundary	<ul style="list-style-type: none">County boundaryDistrict/Borough boundaryWatercourseWater bodyWoodland (not verified by survey)
<ul style="list-style-type: none">Great Crested Newts present (less than 6 visits) - medium population (11 - 99 adults)Great Crested Newts present (6 visits) - small population (1 - 10 adults)Great Crested Newts present (less than 6 visits) - small population (1 - 10 adults)	<ul style="list-style-type: none">Survey complete, Great Crested Newts assumed absentSurvey incomplete, no Great Crested Newts foundScoped in - Habitat Suitability Index (HSI)/walkoverScoped in - no access permission
<ul style="list-style-type: none">Scoped out - no survey required50m radius from all water bodies where presence of Great Crested Newts is confirmed250m radius from all water bodies where presence of Great Crested Newts is confirmed	<ul style="list-style-type: none">500m radius from all water bodies where presence of Great Crested Newts is confirmedAreas isolated by significant barriers to amphibian movement

Map Number	EC-04-043
Map Name	Amphibians
Community Forum Area CFA16: Ladbroke and Southam	

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Doc Number: C253-ATK-EV-MAP-030-000330-P06.00

Scale at A3: 1:10,000

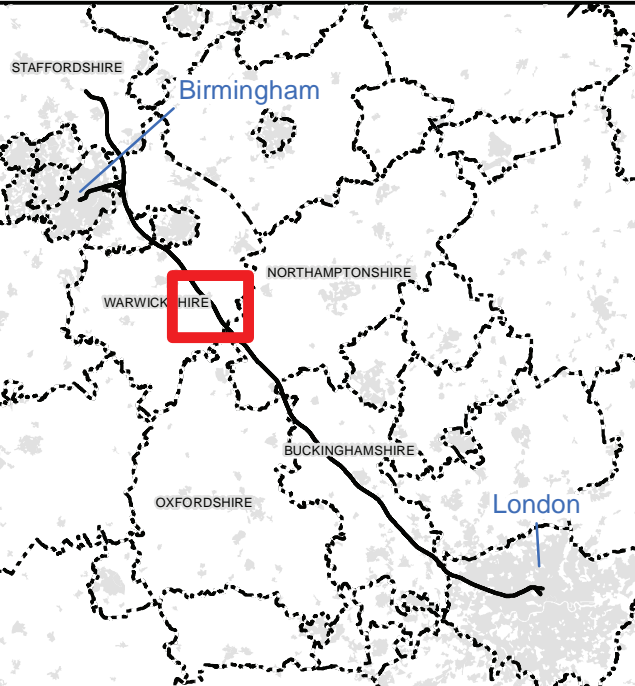
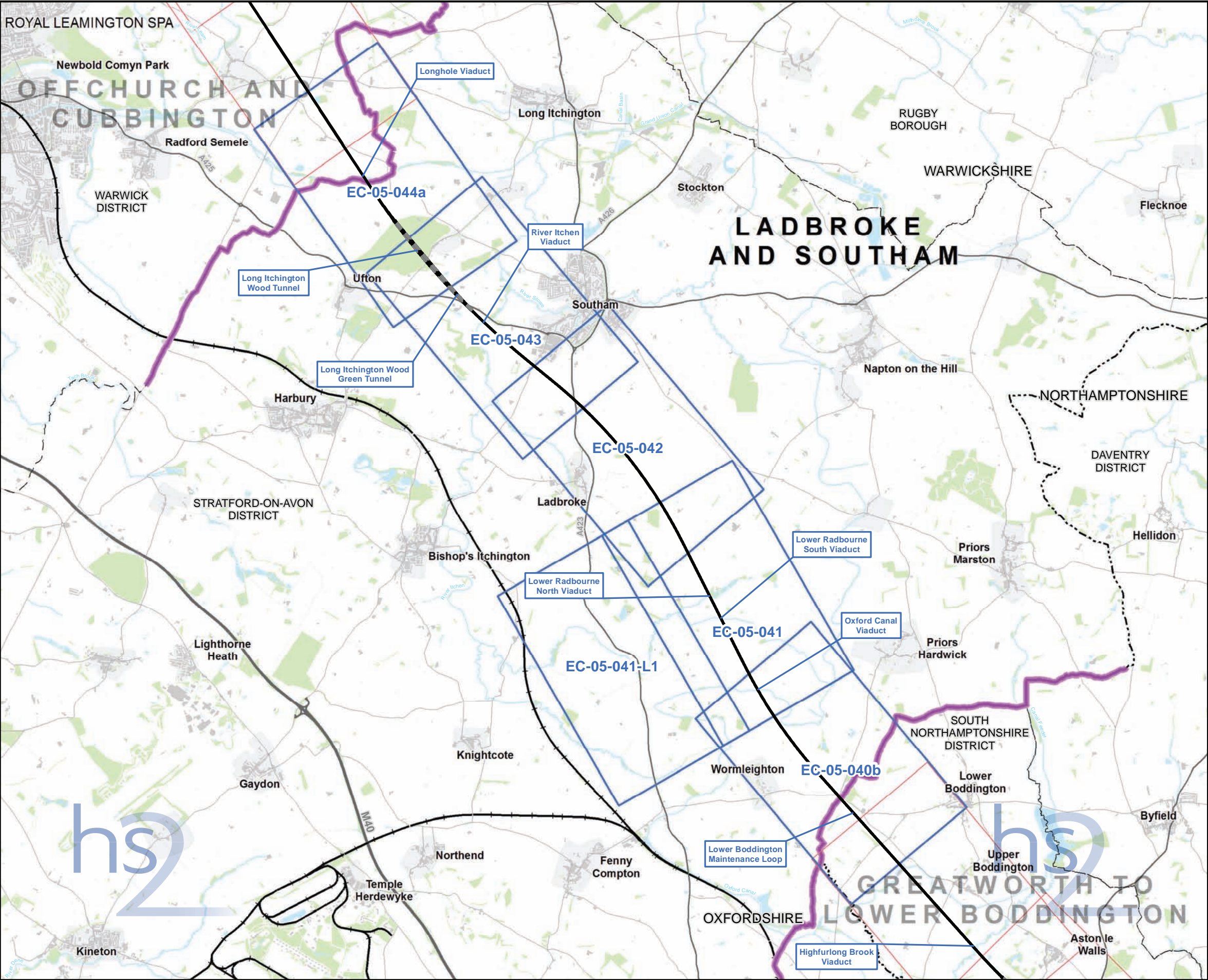
0 100 200 300 400
Metres

Date: 25/10/13

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LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

EC-05 – Bats - Roost




Map Series Information:

This map series shows results of field surveys conducted to investigate the potential for trees and buildings/structures to support roosting bats. It shows the location of roosts confirmed by field survey and features identified as having a high or moderate potential to support roosting bats.

Note: Not all data layers in the legend are represented on every map.

- Main Map Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community forum boundary
 - Existing railway station
 - County boundary
 - District/Borough boundary
 - Map sheets included in this community forum
 - Map sheets not included in this community forum

Map Number	EC-05-INDEX-CFA16
Map Name	Index Map of: Bat - Roost
Community Forum Area CFA16: Ladbroke and Southam	




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Doc Number: C253-ATK-EV-MAP-030-001186-P06.00

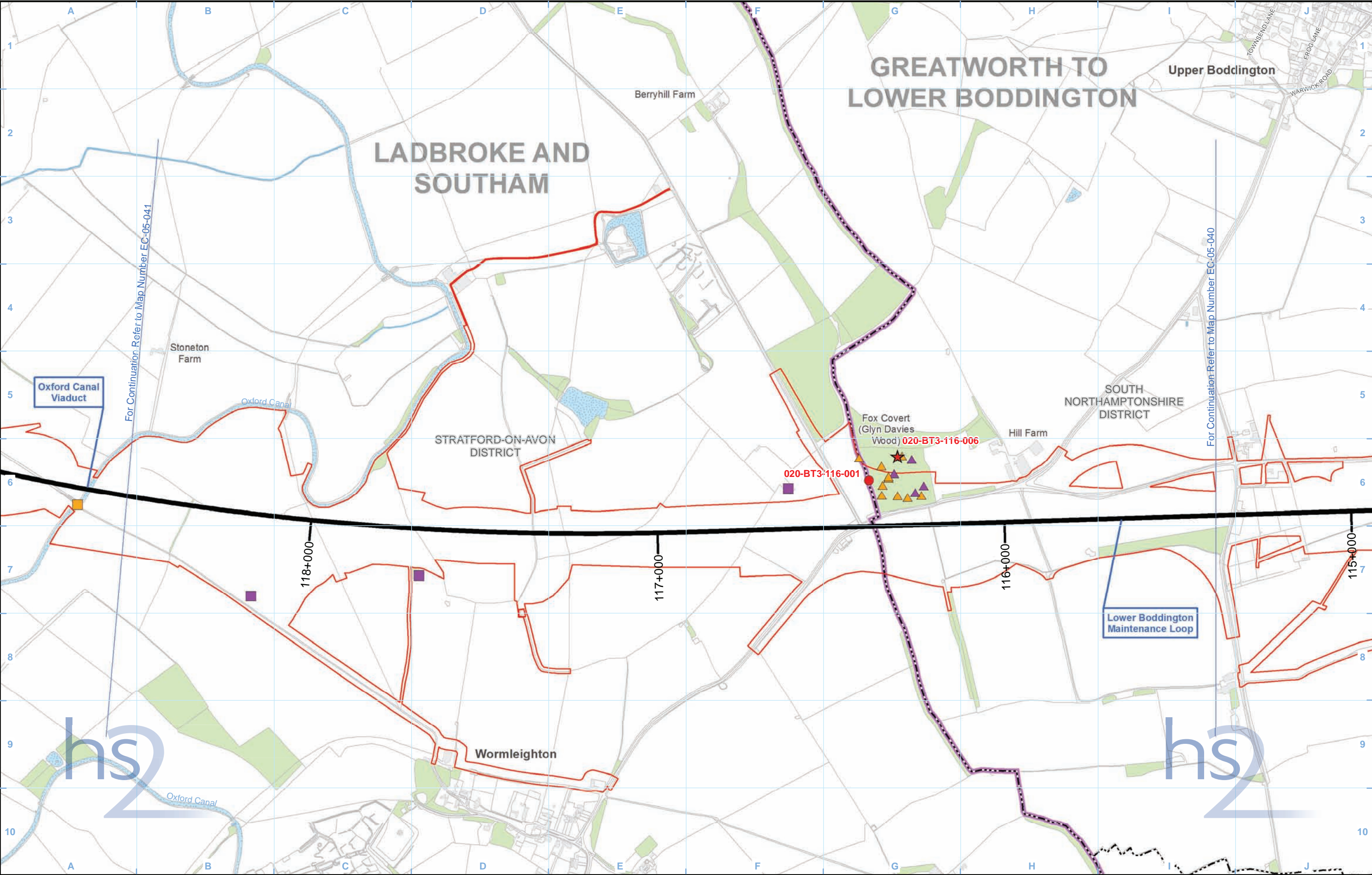


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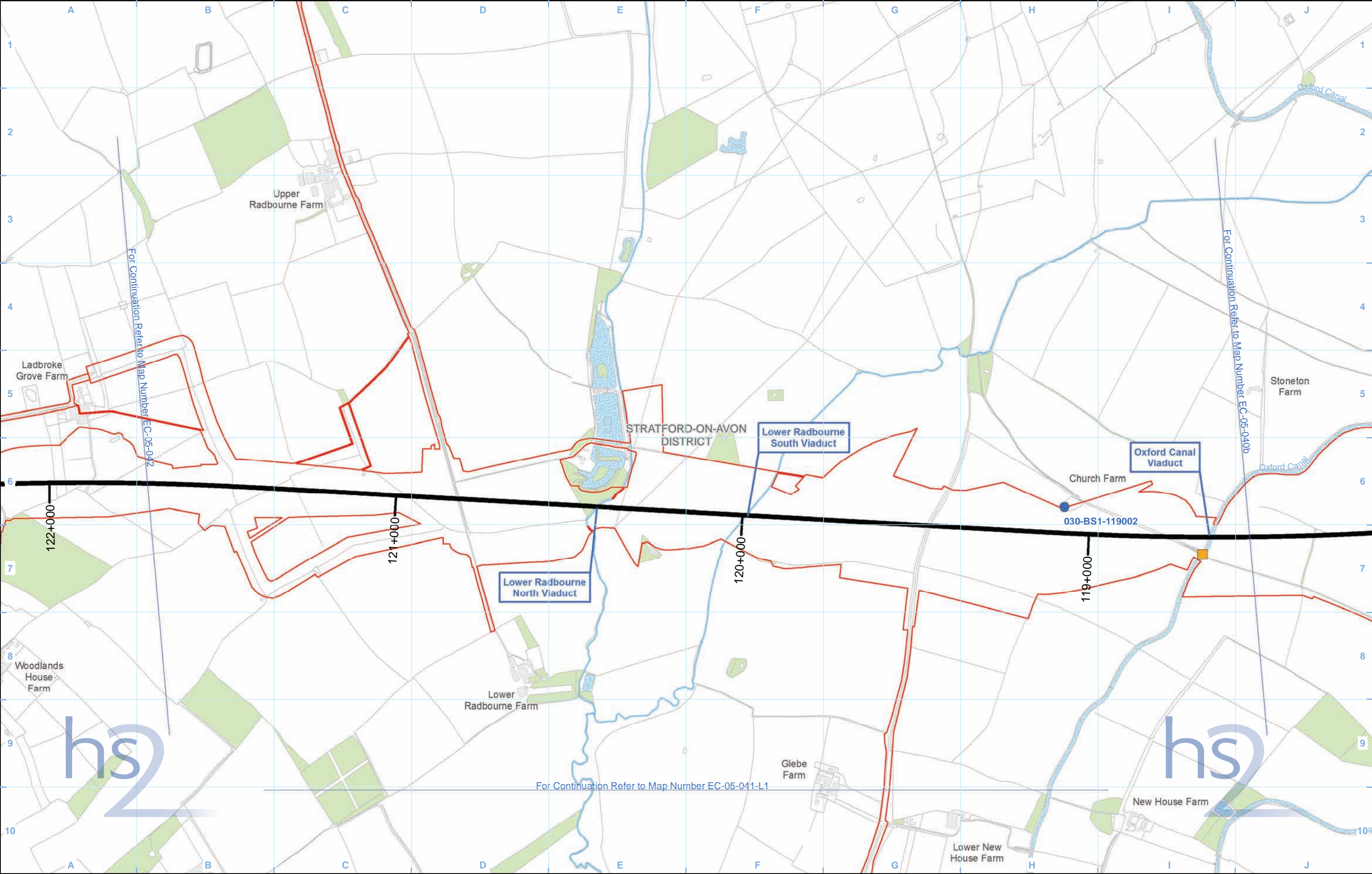




0 650 1,300 1,950 2,600 Metres

Date: 25/10/13



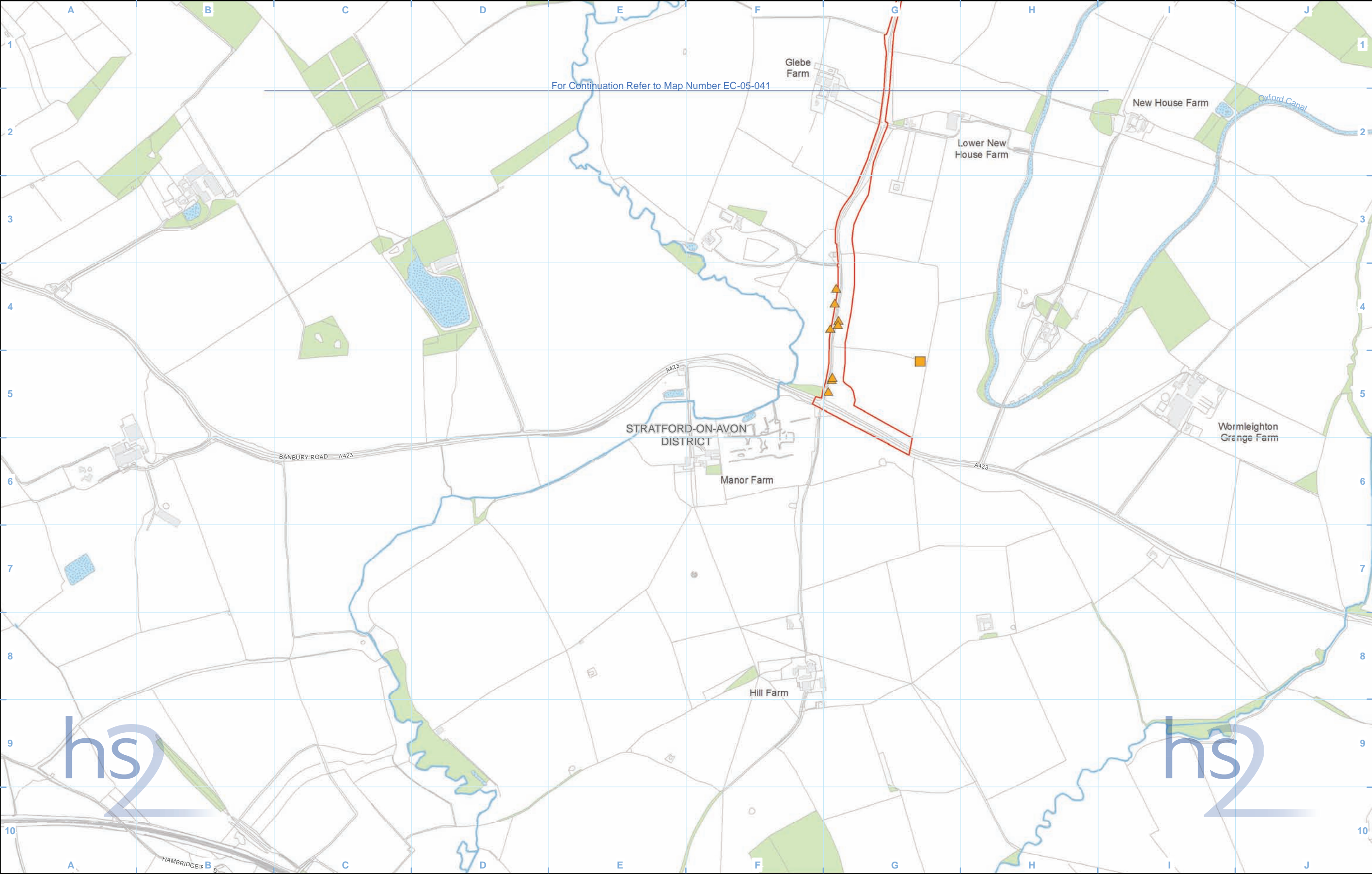
Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community forum boundary County boundary District/Borough boundary	Watercourse Water body Woodland (not verified by survey)	Confirmed bat roost - trees: Hibernation roost Maternity roost Other roost Multiple roost types	Confirmed bat roost - buildings: Hibernation roost Maternity roost Other roost Multiple roost types	Potential to support roosting bats - trees: High Moderate Potential to support roosting bats - buildings: High Moderate	Map Number EC-05-040b Map Name Bat - Roost Community Forum Area CFA16: Ladbroke and Southam	 Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU. © Crown copyright and database rights 2013. Ordnance Survey Licence Number 100049190. Doc Number: C253-ATK-EV-MAP-030-000336-P06.00	 Scale at A3: 1:10,000 0 100 200 300 400 Metres Date: 25/10/13
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Legend		Confirmed bat roost - trees:		Confirmed bat roost - buildings:		Potential to support roosting bats - trees:		
Route in tunnel	Watercourse	◆ Hibernation roost	◆ Hibernation roost	▲ High	Potential to support roosting bats - buildings:		 HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way. Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU. © Crown copyright and database rights 2013. Ordnance Survey Licence Number 100049190. Doc Number: C253-ATK-EV-MAP-030-000337-P06.00	
Route on surface	Water body	★ Maternity roost	★ Maternity roost	▲ Moderate	Potential to support roosting bats - buildings:			 Scale at A3: 1:10,000 0 100 200 300 400 Metres
Depot, station, headhouse or portal building	Woodland (not verified by survey)	● Other roost	● Other roost	■ High	Potential to support roosting bats - buildings:			
Land potentially required during construction		✱ Multiple roost types	✱ Multiple roost types	■ Moderate	Potential to support roosting bats - buildings:			
Community forum boundary								
County boundary								
District/Borough boundary								

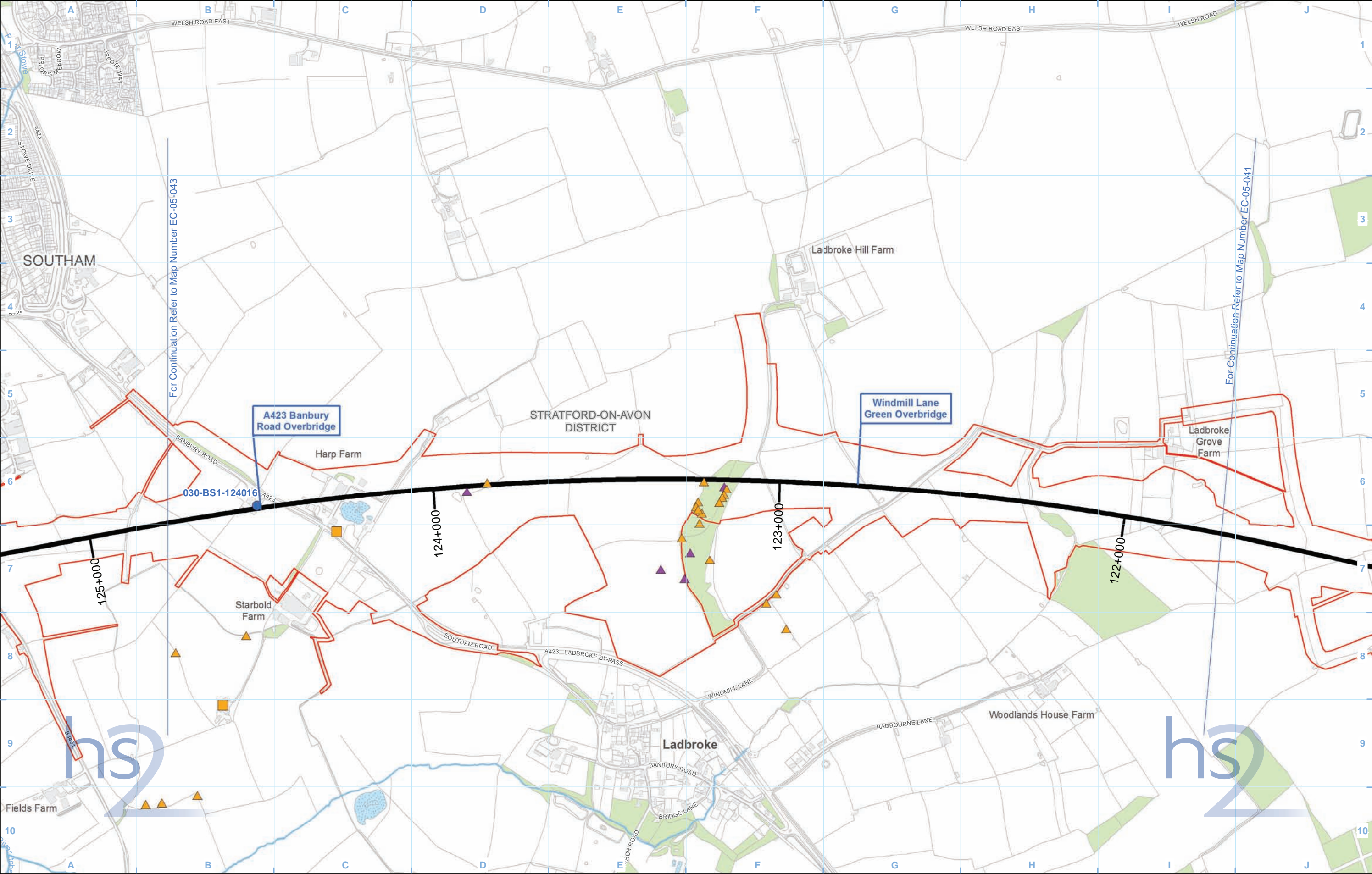
Map Number	EC-05-041
Map Name	Bat - Roost
Community Forum Area CFA16: Ladbroke and Southam	

Doc Number: C253-ATK-EV-MAP-030-000337-P06.00	Date: 25/10/13
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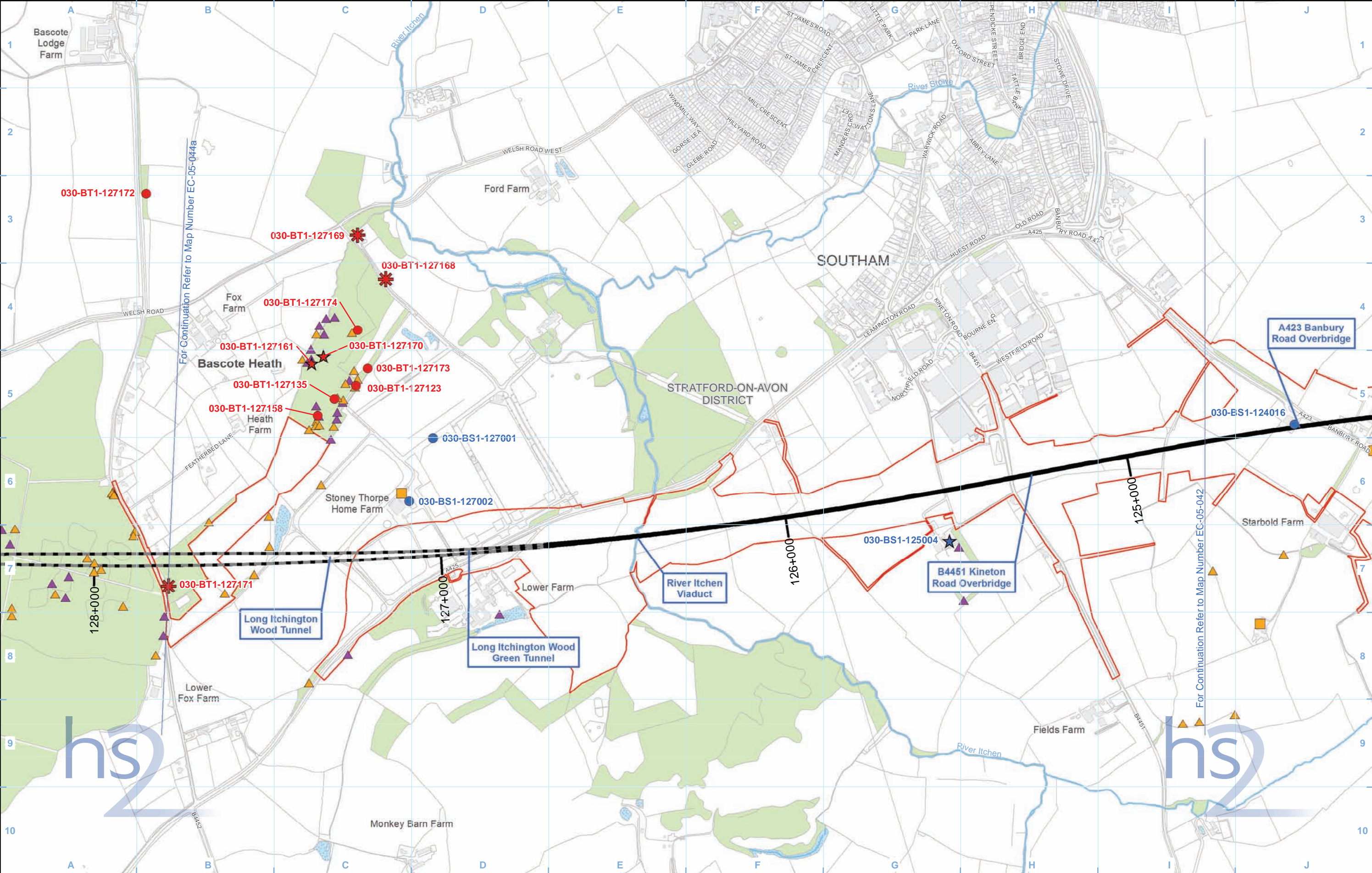


Legend		Confirmed bat roost - trees:		Confirmed bat roost - buildings:		Potential to support roosting bats - trees:	
Route in tunnel	Watercourse	◆ Hibernation roost	◆ Hibernation roost	▲ High	Potential to support roosting bats - buildings:		<div><p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p><p>Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU.</p><p>© Crown copyright and database rights 2013. Ordnance Survey Licence Number 100049190.</p><p>Scale at A3: 1:10,000</p><p>0 100 200 300 400 Metres</p><p>Date: 25/10/13</p></div>
Route on surface	Water body	★ Maternity roost	★ Maternity roost	▲ Moderate	Potential to support roosting bats - buildings:		
Depot, station, headhouse or portal building	Woodland (not verified by survey)	● Other roost	● Other roost	■ High	Potential to support roosting bats - buildings:		
Land potentially required during construction		✱ Multiple roost types	✱ Multiple roost types	■ Moderate	Potential to support roosting bats - buildings:		
Community forum boundary							
County boundary							
District/Borough boundary							

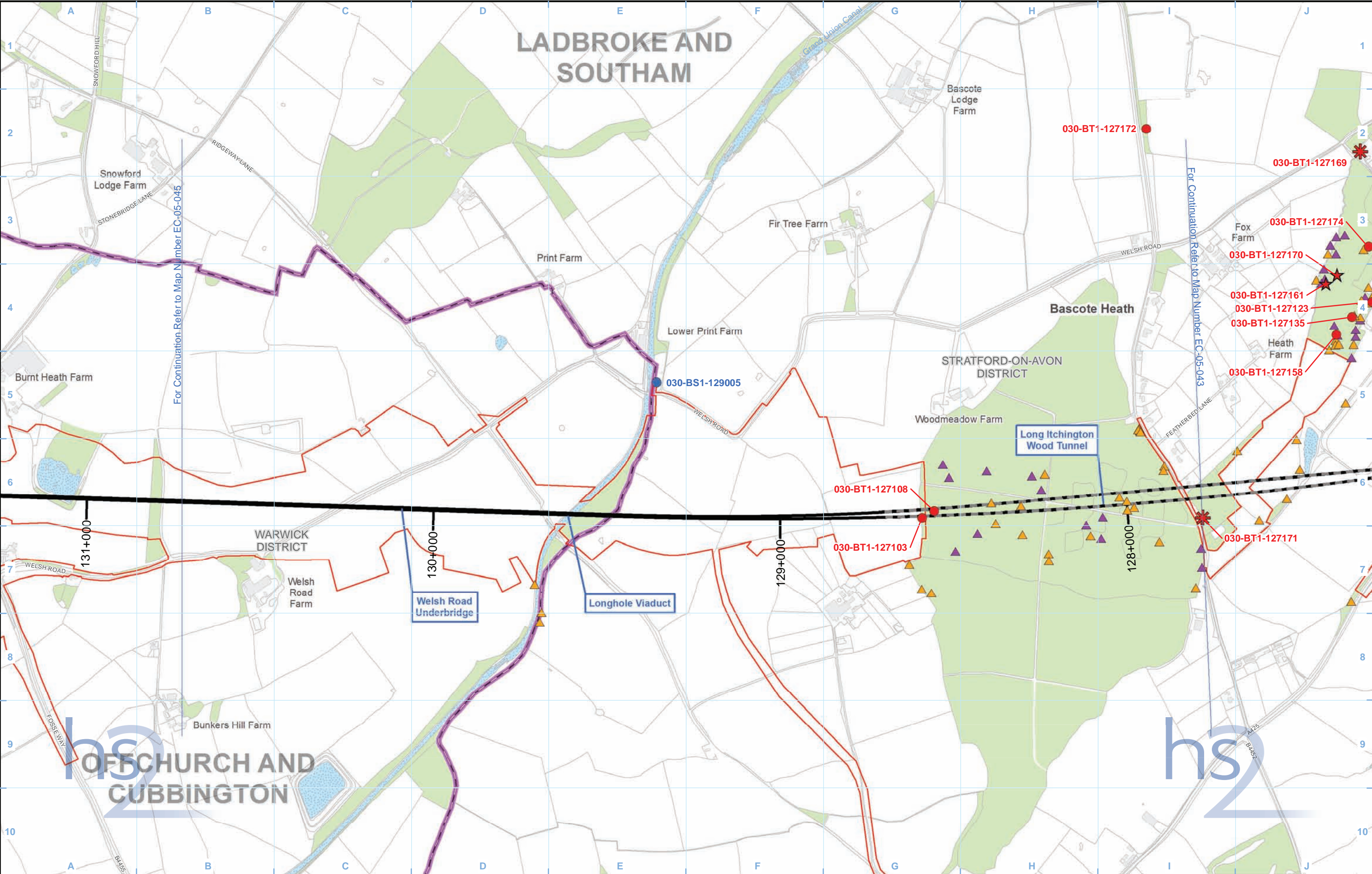
Map Number	EC-05-041-L1
Map Name	Bat - Roost
Community Forum Area CFA16: Ladbroke and Southam	



Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community forum boundary County boundary District/Borough boundary	Watercourse Water body Woodland (not verified by survey)	Confirmed bat roost - trees: Hibernation roost Maternity roost Other roost Multiple roost types	Confirmed bat roost - buildings: Hibernation roost Maternity roost Other roost Multiple roost types	Potential to support roosting bats - trees: High Moderate Potential to support roosting bats - buildings: High Moderate	Map Number EC-05-042 Map Name Bat - Roost Community Forum Area CFA16: Ladbroke and Southam	 HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way. Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU. © Crown copyright and database rights 2013. Ordnance Survey Licence Number 100049190. Doc Number: C253-ATK-EV-MAP-030-000338-P06.00 Date: 25/10/13
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Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community forum boundary County boundary District/Borough boundary	Watercourse Water body Woodland (not verified by survey)	Confirmed bat roost - trees: Hibernation roost Maternity roost Other roost Multiple roost types	Confirmed bat roost - buildings: Hibernation roost Maternity roost Other roost Multiple roost types	Potential to support roosting bats - trees: High Moderate Potential to support roosting bats - buildings: High Moderate	Map Number EC-05-043	 Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU. © Crown copyright and database rights 2013. Ordnance Survey Licence Number 100049190. Doc Number: C253-ATK-EV-MAP-030-000339-P06.00	 Scale at A3: 1:10,000 0 100 200 300 400 Metres Date: 25/10/13
					Map Name Bat - Roost		

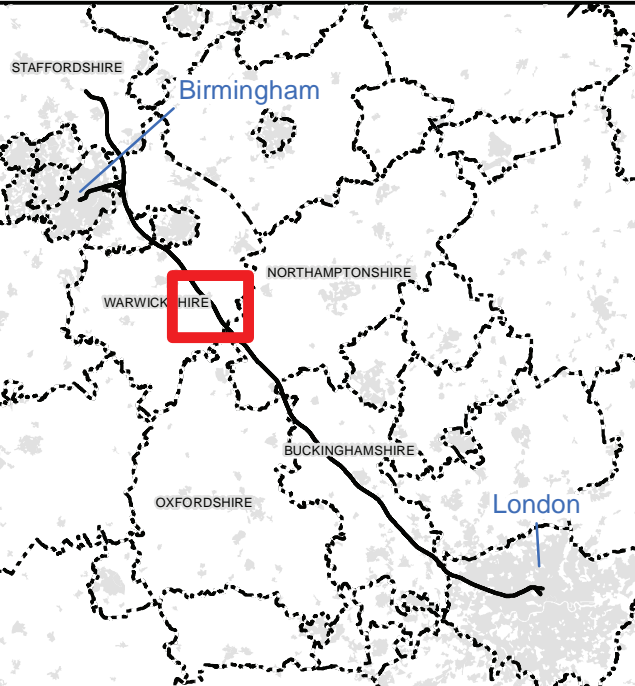
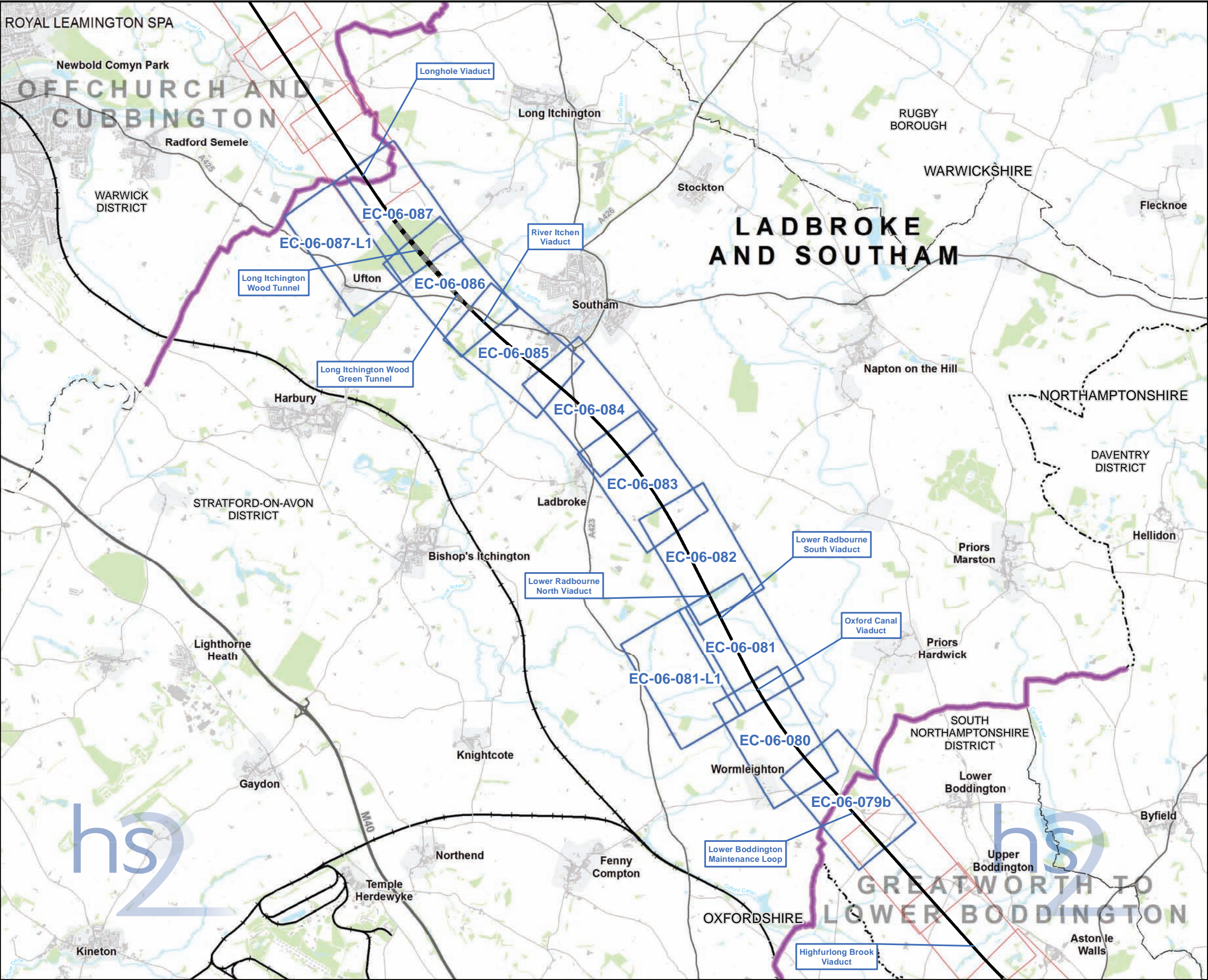


Legend		Map Number EC-05-044a	
Map Name Bat - Roost		hs2 Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU.	
Community Forum Area CFA16: Ladbroke and Southam		Scale at A3: 1:10,000 0 100 200 300 400 Metres	
Doc Number: C253-ATK-EV-MAP-030-000340-P06.00		Date: 25/10/13	

Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community forum boundary County boundary District/Borough boundary	Watercourse Water body Woodland (not verified by survey)	Confirmed bat roost - trees: Hibernation roost Maternity roost Other roost Multiple roost types	Confirmed bat roost - buildings: Hibernation roost Maternity roost Other roost Multiple roost types	Potential to support roosting bats - trees: High Moderate Potential to support roosting bats - buildings: High Moderate
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LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

EC-o6 – Bats – Activity




Map Series Information:

This map series shows the location of bat activity surveys conducted to inform the Environmental Statement. In addition it shows the location of the key bat foraging and commuting routes which have been established on the basis of the survey work conducted.

- Main Map Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community forum boundary
 - Existing railway station
 - County boundary
 - District/Borough boundary
 - Map sheets included in this community forum
 - Map sheets not included in this community forum

Map Number	EC-06-INDEX-CFA16
Map Name	Index Map of: Bat - Activity
Community Forum Area CFA16: Ladbroke and Southam	




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Doc Number: C253-ATK-EV-MAP-030-001193-P06.00

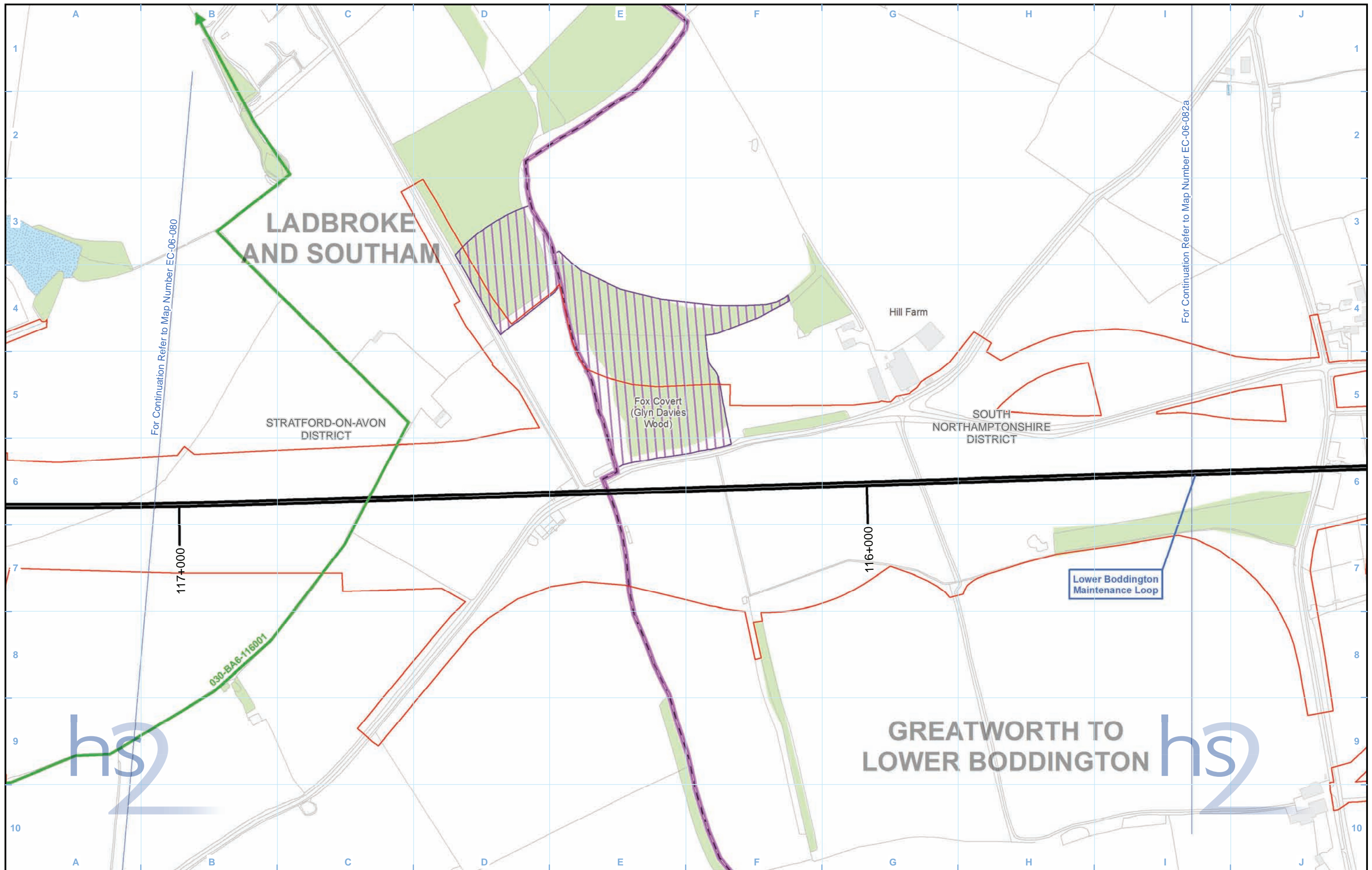


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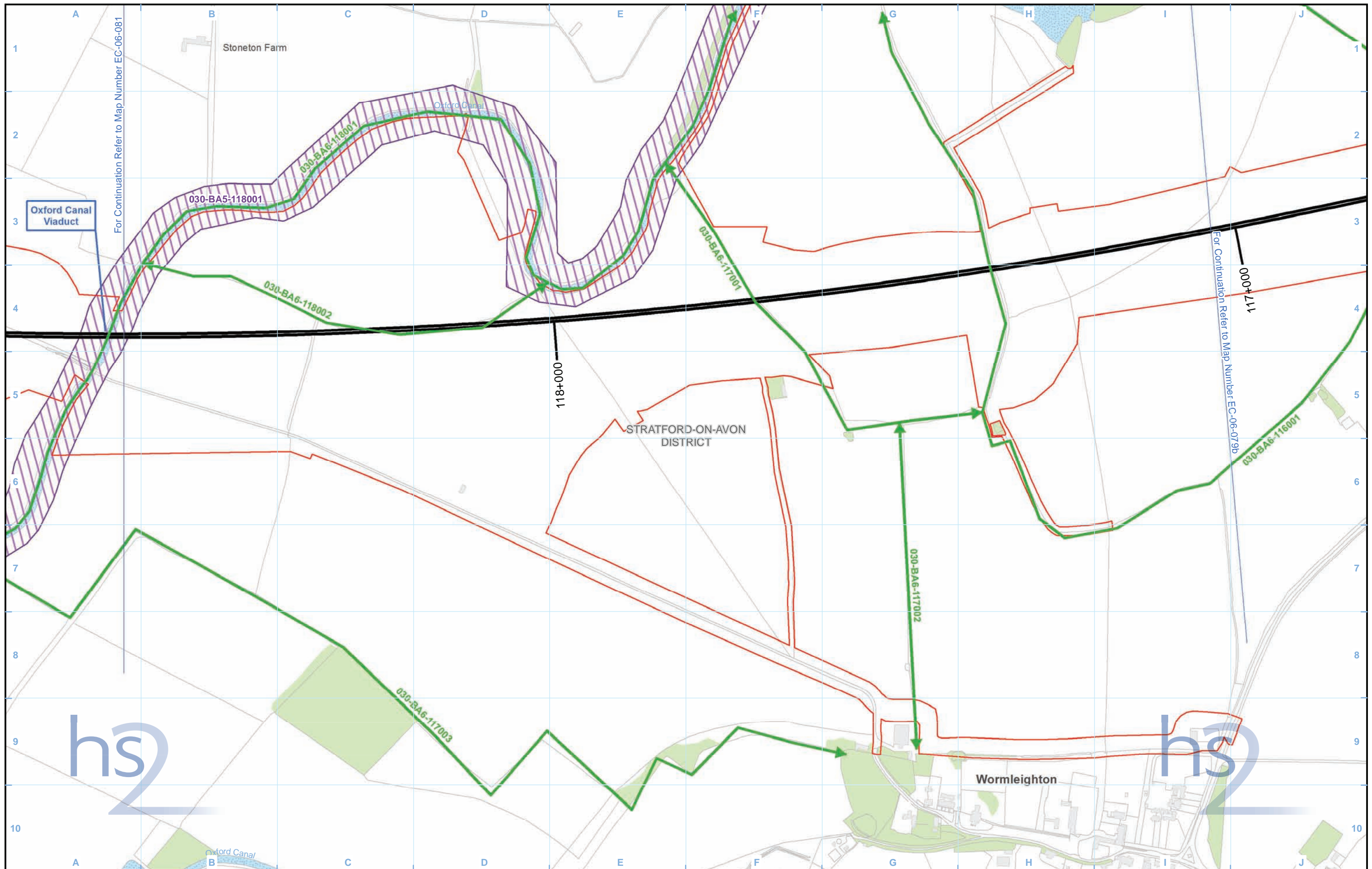


0 650 1,300 1,950 2,600 Metres

Date: 25/10/13



Legend <ul style="list-style-type: none">Route in tunnelRoute on surfaceDepot, station, headhouse or portal buildingLand potentially required during constructionCommunity forum boundaryDistrict/Borough boundaryWatercourseWater bodyWoodland (verified by survey)Bat activity static detector locationActivity transect routeAssumed key commuting routeAssumed key areas of foraging habitat	<table border="1"><tr><td>Map Number</td><td>EC-06-079b</td></tr><tr><td>Map Name</td><td>Bat - Activity</td></tr><tr><td colspan="2">Community Forum Area CFA16: Ladbroke and Southam</td></tr></table>	Map Number	EC-06-079b	Map Name	Bat - Activity	Community Forum Area CFA16: Ladbroke and Southam		<div><p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p><p>Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU.</p><p>© Crown copyright and database rights 2013. Ordnance Survey Licence Number 100049190.</p><p>Doc Number: C253-ATK-EV-MAP-030-000345-P06.00</p></div> <div><p>Scale at A3: 1:5,000</p><p>0 50 100 150 200 Metres</p><p>Date: 25/10/13</p></div>
Map Number	EC-06-079b							
Map Name	Bat - Activity							
Community Forum Area CFA16: Ladbroke and Southam								



Legend		Map Number EC-06-080	
Route in tunnel	Watercourse	Map Name Bat - Activity	
Route on surface	Water body		
Depot, station, headhouse or portal building	Woodland (verified by survey)	Community Forum Area CFA16: Ladbroke and Southam	
Land potentially required during construction	Bat activity static detector location		
Community forum boundary	Activity transect route	Doc Number: C253-ATK-EV-MAP-030-000346-P06.00	
District/Borough boundary	Assumed key commuting route		
	Assumed key areas of foraging habitat	Date: 25/10/13	

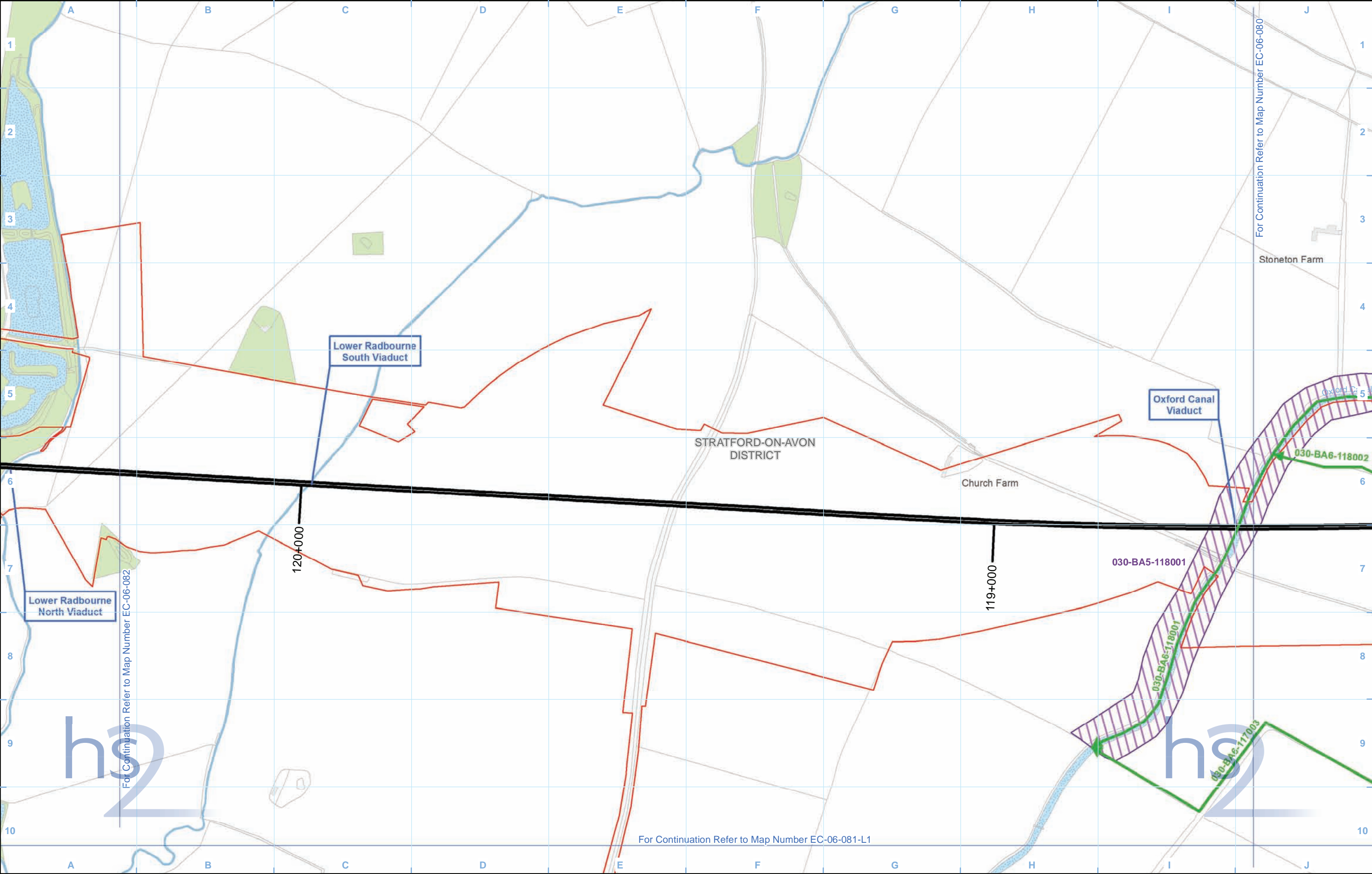
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Scale at A3: 1:5,000

0 50 100 150 200 Metres



Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

District/Borough boundary

Watercourse

Water body

Woodland (verified by survey)

Bat activity static detector location

Activity transect route

Assumed key commuting route

Assumed key areas of foraging habitat

Map Number

EC-06-081

Map Name

Bat - Activity

Community Forum Area CFA16:
Ladbroke and Southam

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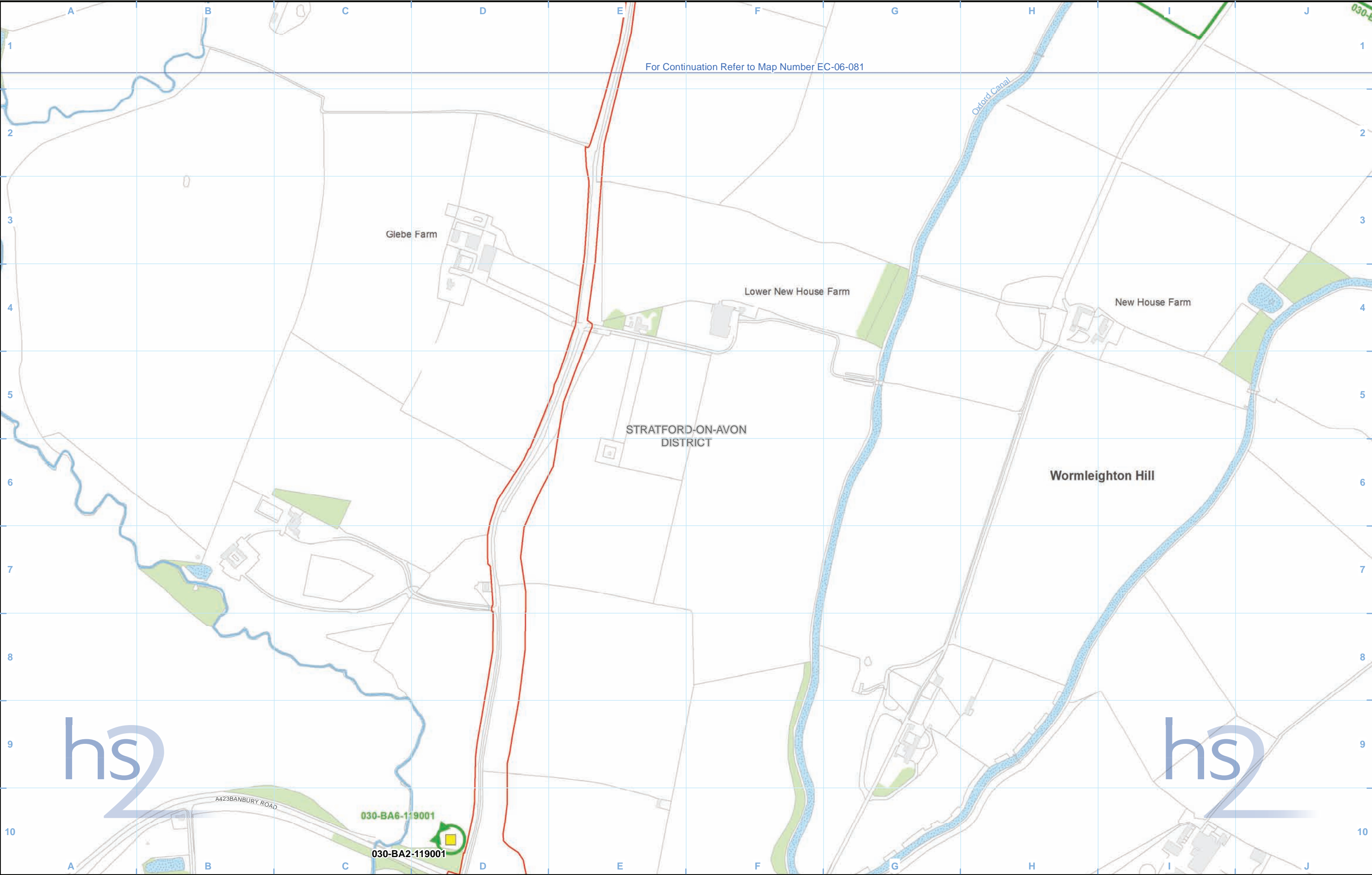
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Doc Number: C253-ATK-EV-MAP-030-000347-P06.00

Scale at A3: 1:5,000

Date: 25/10/13



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community forum boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Bat activity static detector location
- Activity transect route
- Assumed key commuting route
- Assumed key areas of foraging habitat

Map Number	EC-06-081-L1
Map Name	Bat - Activity
Community Forum Area CFA16: Ladbroke and Southam	

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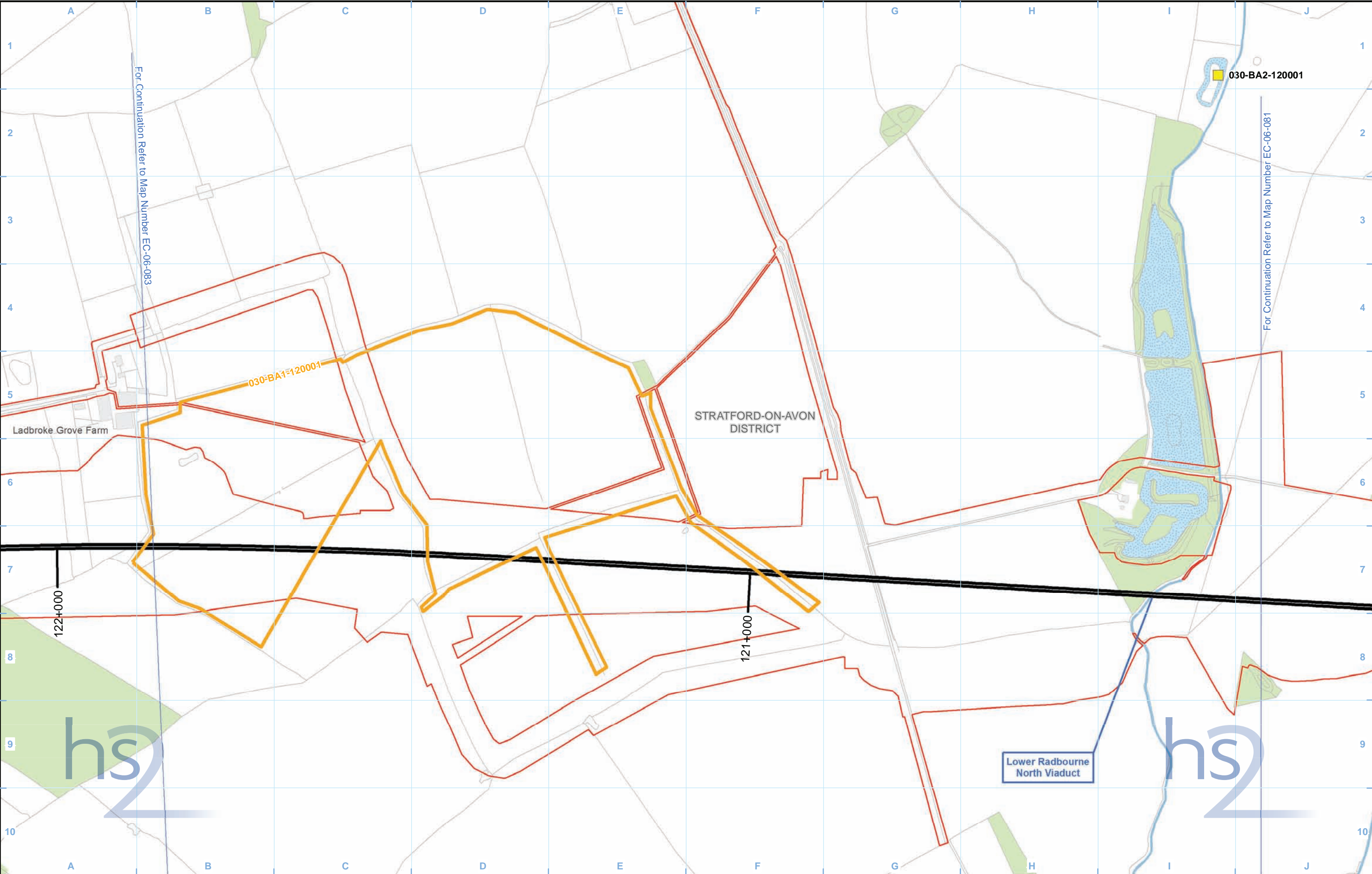
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Doc Number: C253-ATK-EV-MAP-030-001440-P06.00

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Scale at A3: 1:5,000

Date: 25/10/13



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community forum boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Bat activity static detector location
- Activity transect route
- Assumed key commuting route
- Assumed key areas of foraging habitat

Map Number EC-06-082

Map Name Bat - Activity

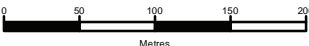
Community Forum Area CFA16:
Ladbroke and Southam



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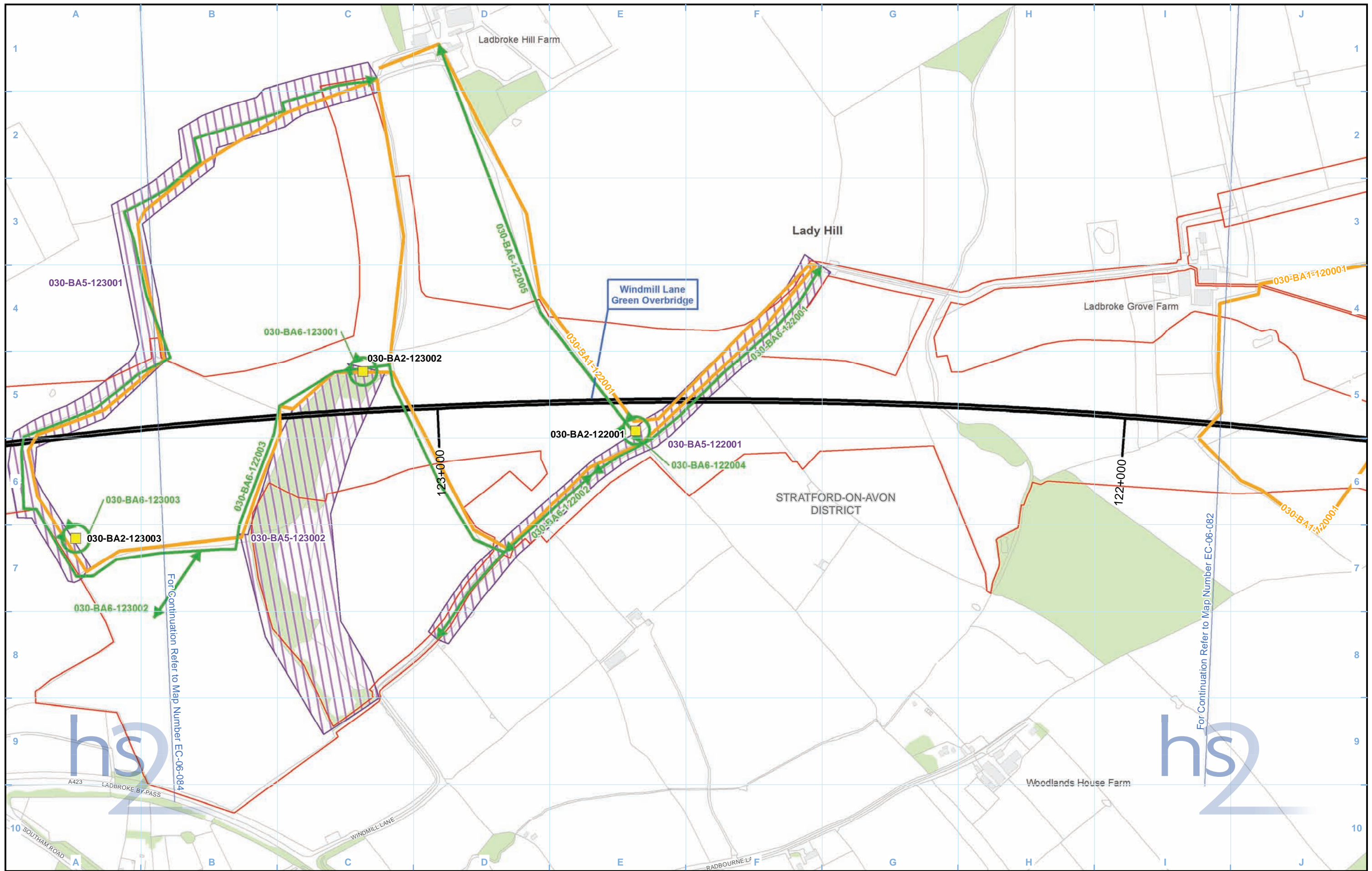
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Scale at A3: 1:5,000



Doc Number: C253-ATK-EV-MAP-030-000348-P06.00

Date: 25/10/13



Legend	
Route in tunnel	Watercourse
Route on surface	Water body
Depot, station, headhouse or portal building	Woodland (verified by survey)
Land potentially required during construction	Bat activity static detector location
Community forum boundary	Activity transect route
District/Borough boundary	Assumed key commuting route
	Assumed key areas of foraging habitat

Map Number	EC-06-083
Map Name	Bat - Activity
Community Forum Area CFA16: Ladbroke and Southam	

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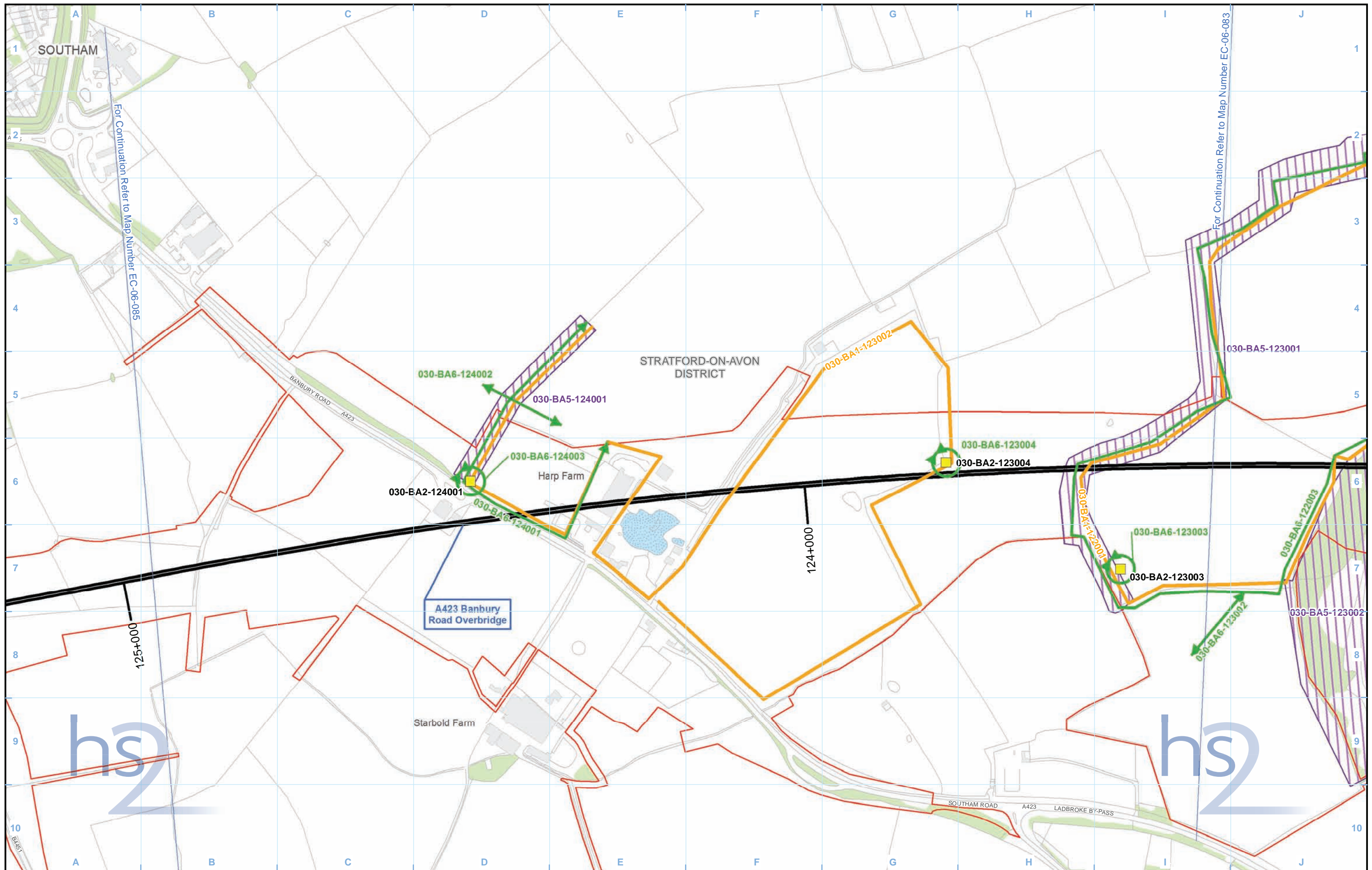
Doc Number: C253-ATK-EV-MAP-030-000349-P06.00

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Scale at A3: 1:5,000

Metres

Date: 25/10/13



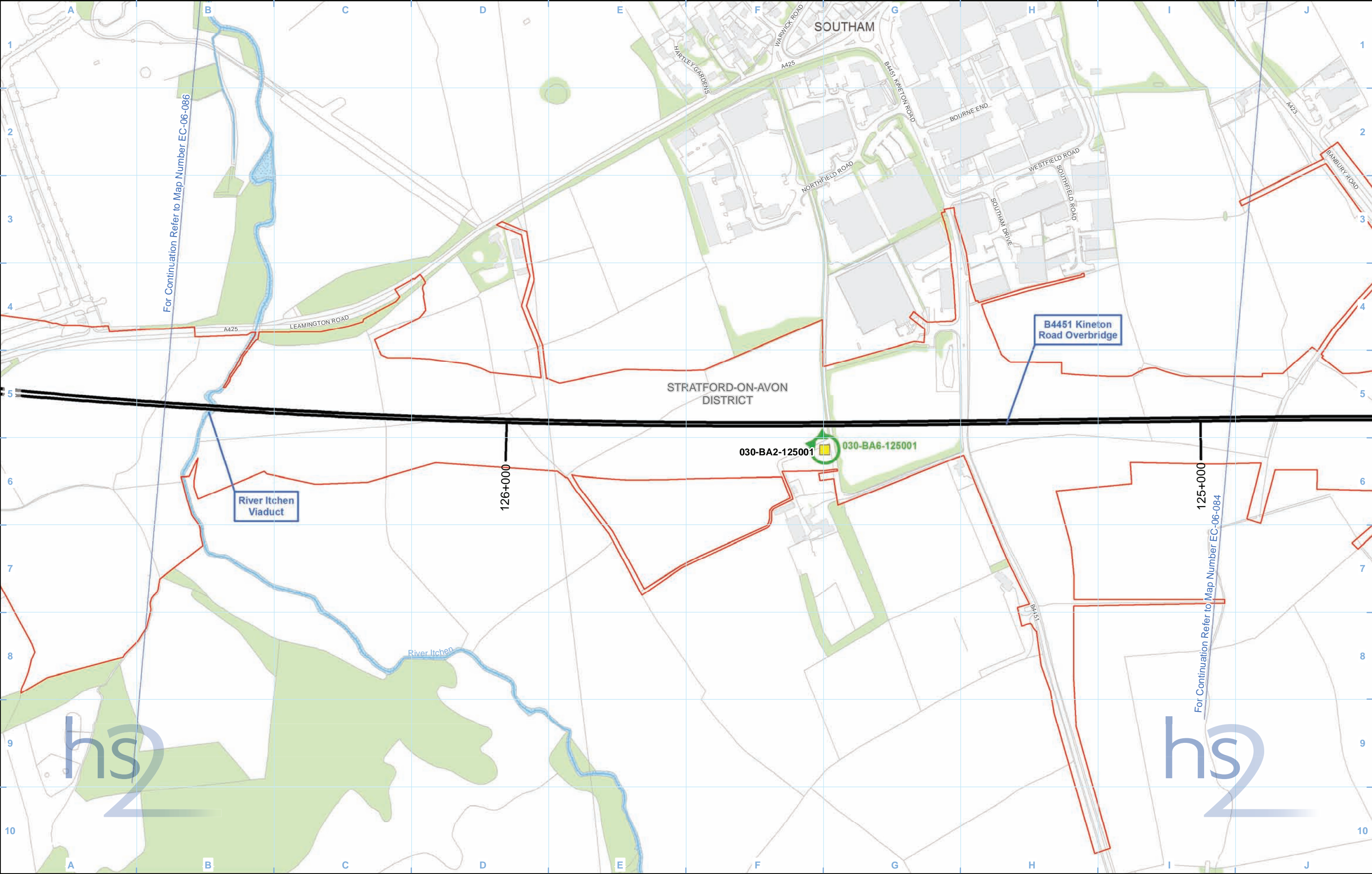
Legend		Map Number EC-06-084	
Route in tunnel	Watercourse	Map Name Bat - Activity	
Route on surface	Water body		
Depot, station, headhouse or portal building	Woodland (verified by survey)	Community Forum Area CFA16: Ladbroke and Southam	
Land potentially required during construction	Bat activity static detector location		
Community forum boundary	Activity transect route	Doc Number: C253-ATK-EV-MAP-030-000350-P06.00	
District/Borough boundary	Assumed key commuting route		
	Assumed key areas of foraging habitat	Date: 25/10/13	

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Scale at A3: 1:5,000

0 50 100 150 200 Metres



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community forum boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Bat activity static detector location
- Activity transect route
- Assumed key commuting route
- Assumed key areas of foraging habitat

Map Number	EC-06-085
Map Name	Bat - Activity
Community Forum Area CFA16: Ladbroke and Southam	



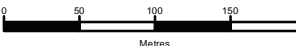
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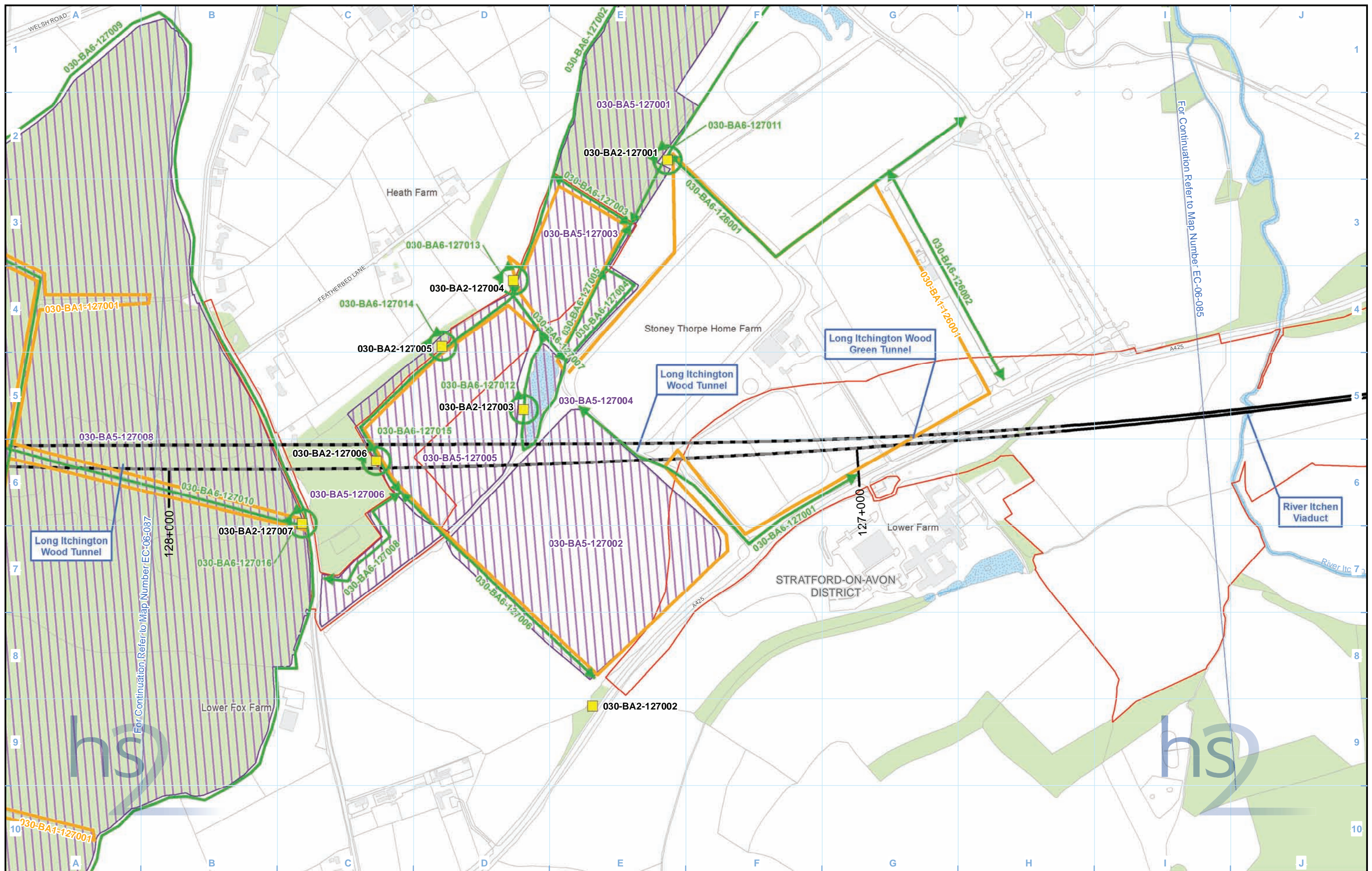
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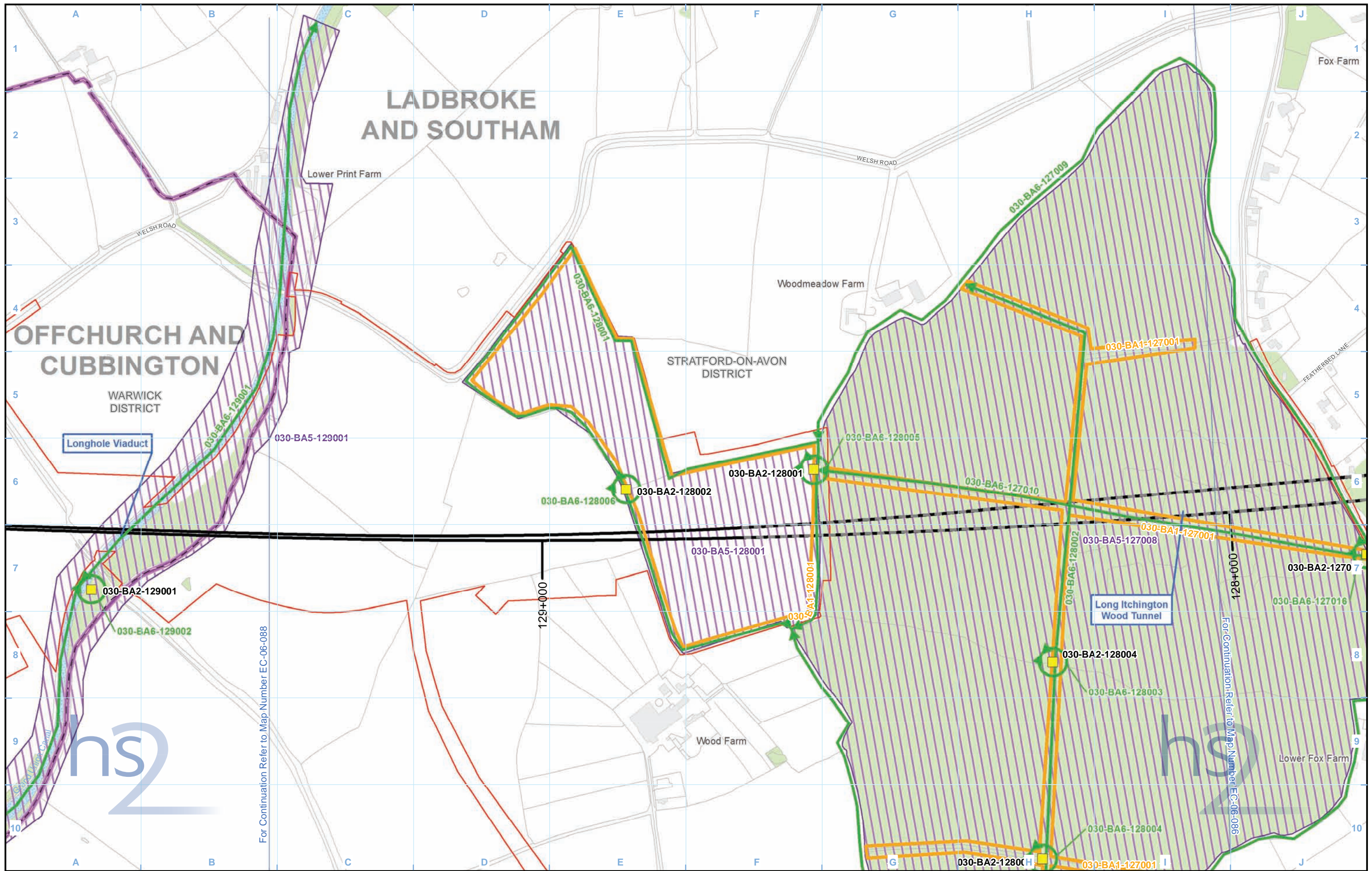
Scale at A3: 1:5,000



Date: 25/10/13



Legend		Map Number EC-06-086	
Route in tunnel	Watercourse	Map Name Bat - Activity	
Route on surface	Water body	Community Forum Area CFA16: Ladbroke and Southam	
Depot, station, headhouse or portal building	Woodland (verified by survey)		
Land potentially required during construction	Bat activity static detector location	 Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU. © Crown copyright and database rights 2013. Ordnance Survey Licence Number 100049190. Doc Number: C253-ATK-EV-MAP-030-000352-P06.00	
Community forum boundary	Activity transect route		
District/Borough boundary	Assumed key commuting route	Date: 25/10/13	
	Assumed key areas of foraging habitat		



Legend		Map Number EC-06-087	
Route in tunnel	Watercourse	Map Name Bat - Activity	
Route on surface	Water body		
Depot, station, headhouse or portal building	Woodland (verified by survey)	Community Forum Area CFA16: Ladbroke and Southam	
Land potentially required during construction	Bat activity static detector location		
Community forum boundary	Activity transect route	Doc Number: C253-ATK-EV-MAP-030-000353-P06.00	
District/Borough boundary	Assumed key commuting route		
	Assumed key areas of foraging habitat	Date: 25/10/13	

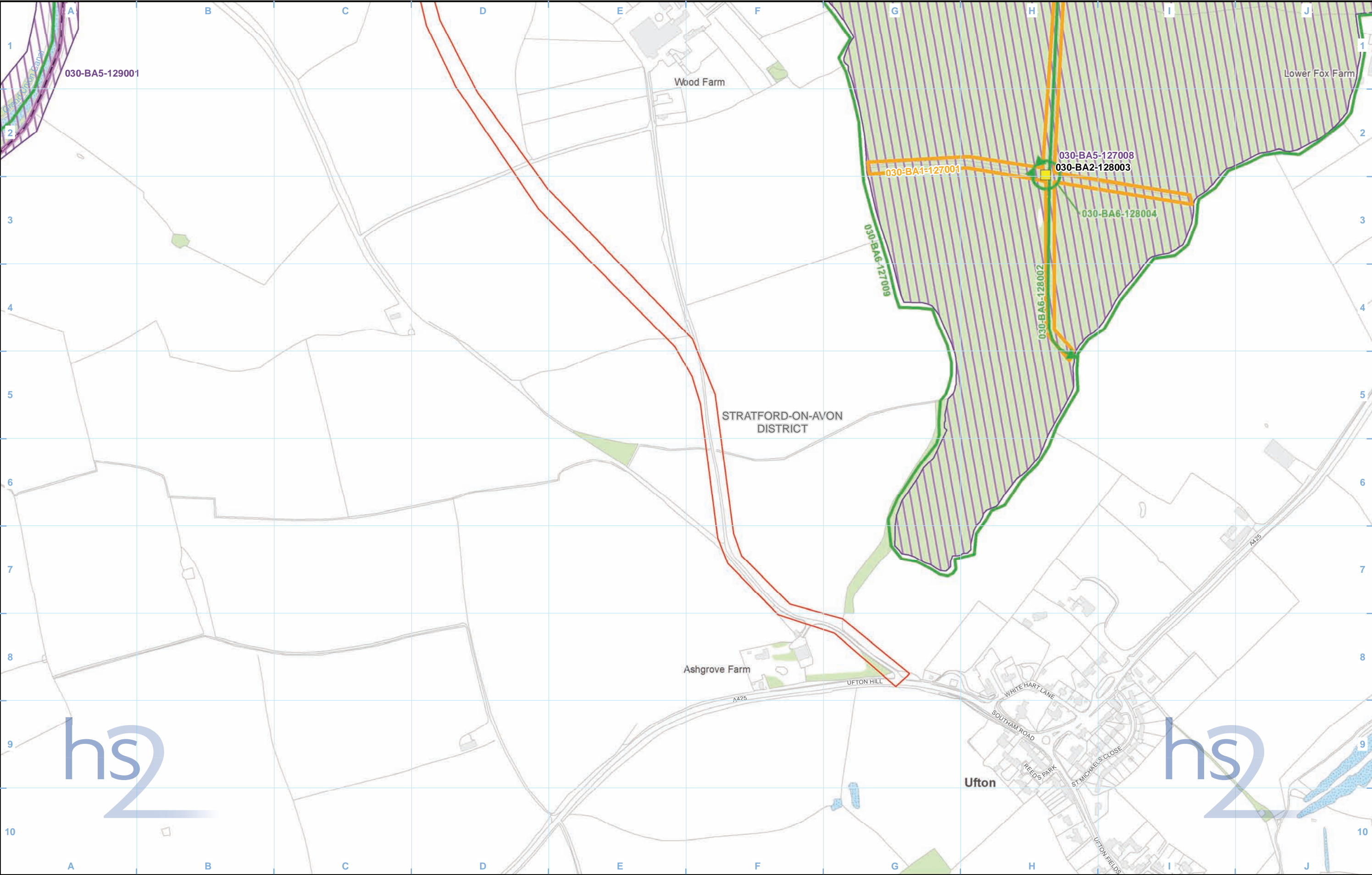
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Scale at A3: 1:5,000

0 50 100 150 200 Metres



Legend

- | | | |
|---|-------------------------------|---------------------------------------|
| Route in tunnel | Watercourse | Bat activity static detector location |
| Route on surface | Water body | Activity transect route |
| Depot, station, headhouse or portal building | Woodland (verified by survey) | Assumed key commuting route |
| Land potentially required during construction | | Assumed key areas of foraging habitat |
| Community forum boundary | | |
| District/Borough boundary | | |

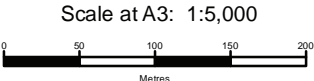
Map Number	EC-06-087-L1
Map Name	Bat - Activity
Community Forum Area CFA16: Ladbroke and Southam	



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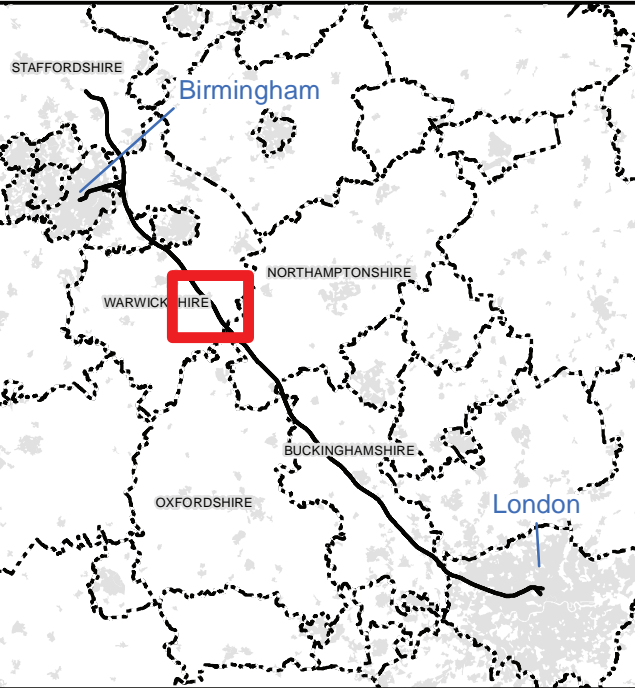
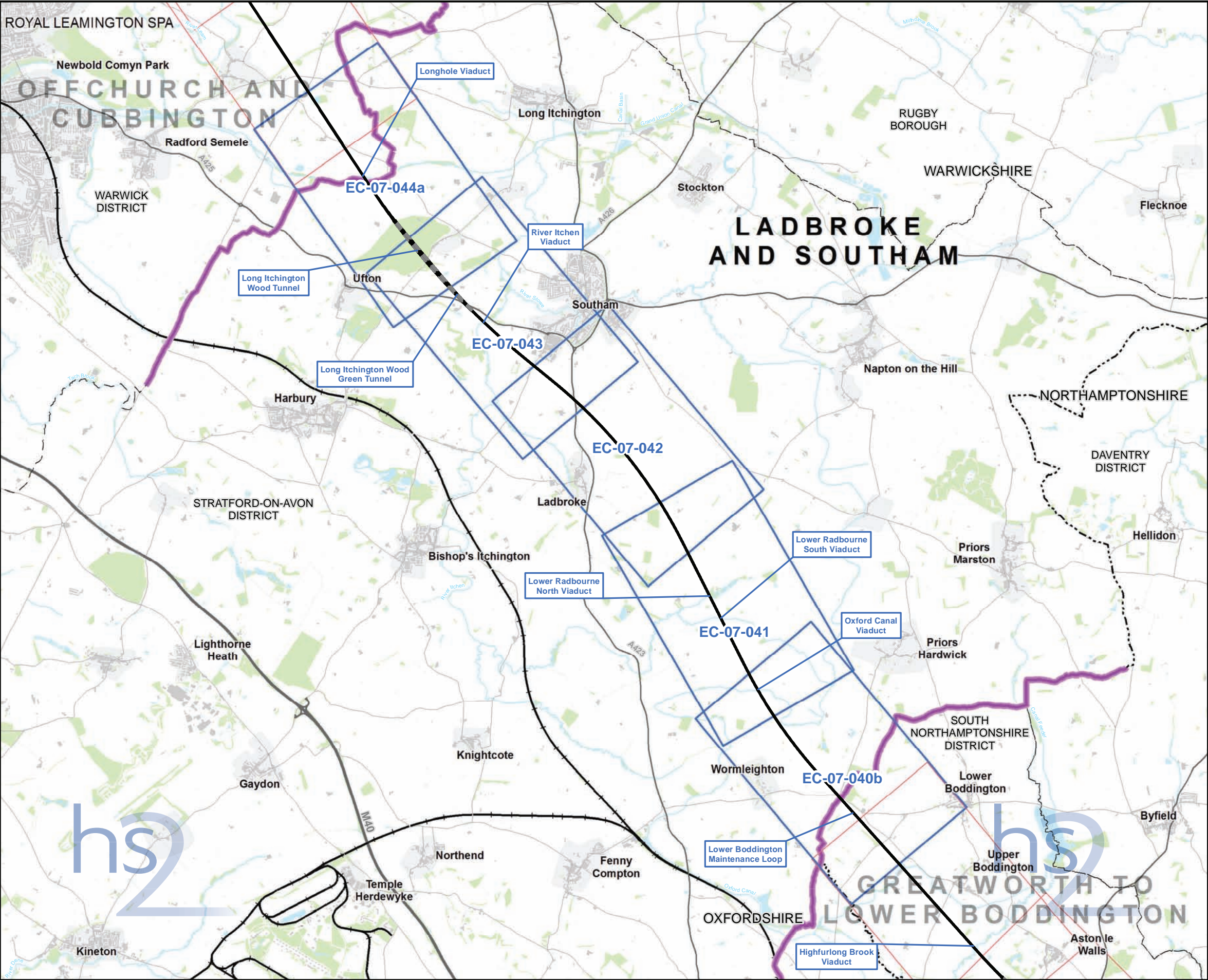
Doc Number: C253-ATK-EV-MAP-030-001437-P06.00

Date: 25/10/13

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LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

EC-07 – Reptiles



Map Series Information:

This map series shows the extent and results of survey work for common reptiles that has been undertaken to inform the Environmental Statement.

Note: Not all data layers in the legend are represented on every map.

Main Map Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Community forum boundary

Existing railway station

County boundary

District/Borough boundary

Map sheets included in this community forum

Map sheets not included in this community forum

Map Number

EC-07-INDEX-CFA16

Map Name

Index Map of:
Reptiles

Community Forum Area CFA16:

Ladbroke and Southam

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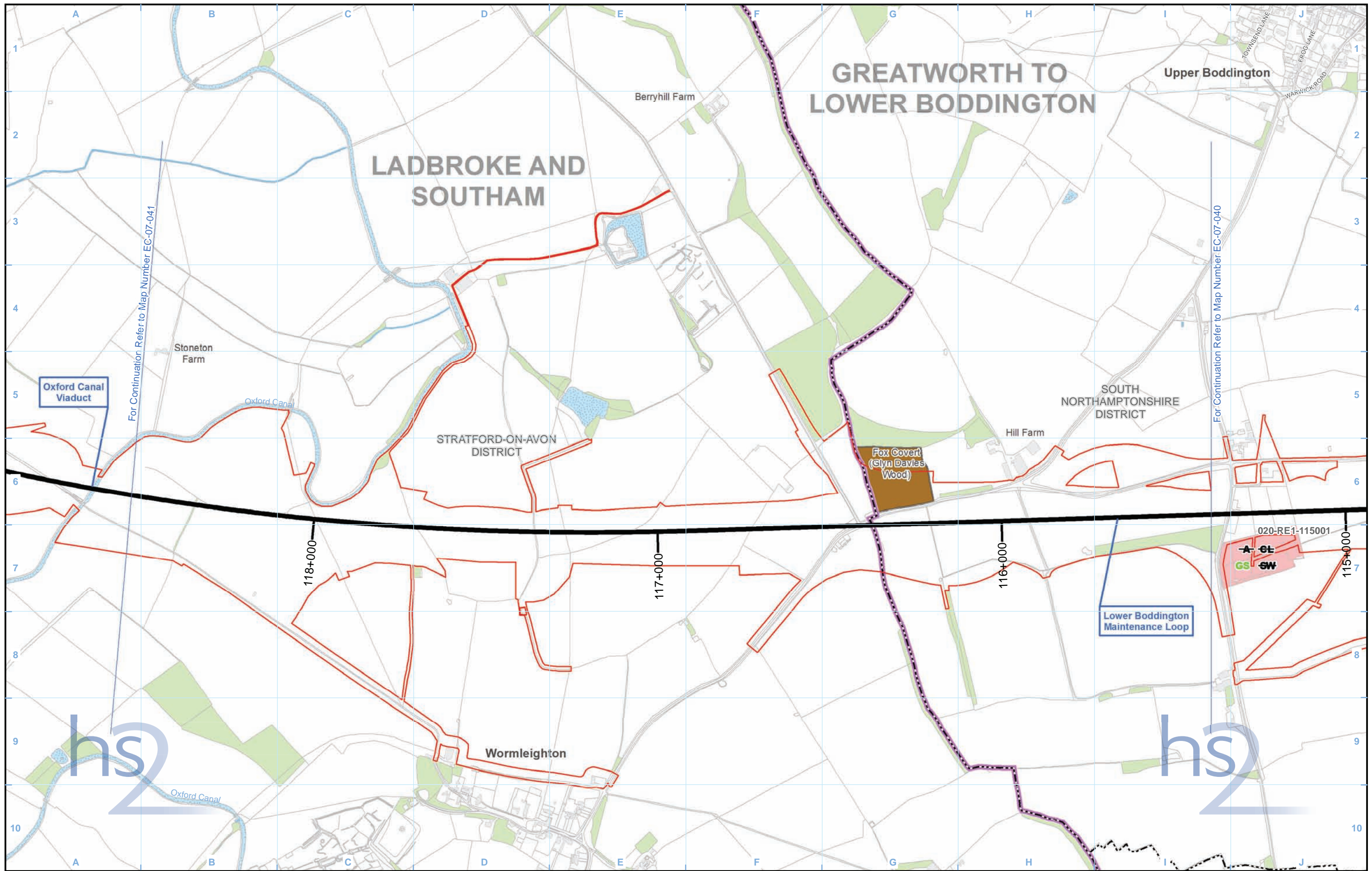
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Doc Number: C253-ATK-EV-MAP-030-001200-P06.00

Scale at A3: 1:65,000

Metres

Date: 25/10/13



Legend

Route in tunnel	Watercourse	Population size class survey - visits completed
Route on surface	Water body	Population size class survey - incomplete
Depot, station, headhouse or portal building	Woodland (not verified by survey)	Presence/absence survey conducted - reptiles assumed absent
Land potentially required during construction		Scoping visit only - scoped out
Community forum boundary		Scoping visit conducted - habitat suitable but no further survey conducted
County boundary		
District/Borough boundary		

Population size class assessment:

Adder:	Common lizard:	Grass snake:	Slow worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number: EC-07-040b

Map Name: Reptiles

Community Forum Area CFA16: Ladbroke and Southam

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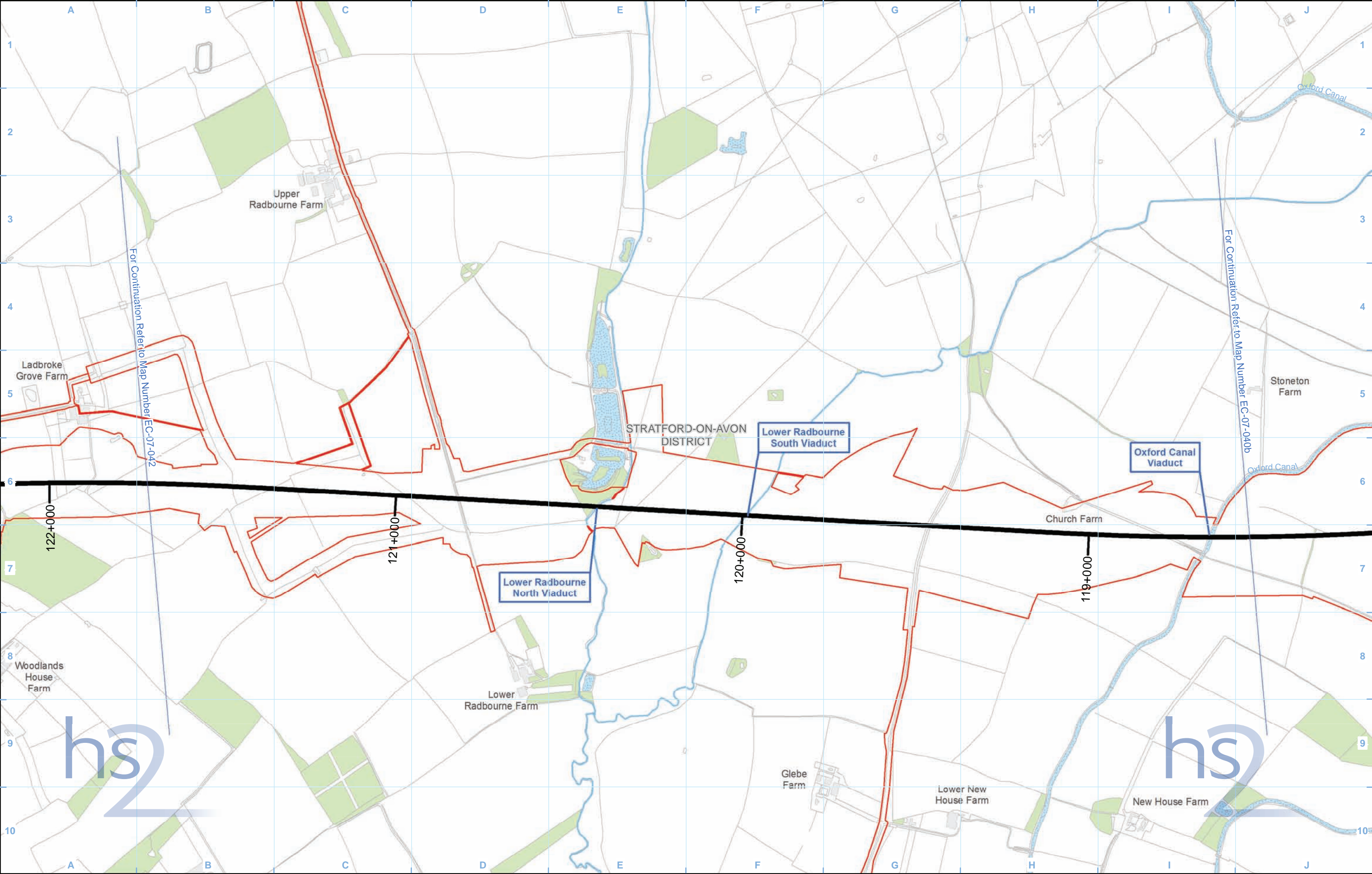
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Doc Number: C253-ATK-EV-MAP-030-000362-P06.00

Date: 28/10/13

Scale at A3: 1:10,000

0 100 200 300 400 Metres



Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

County boundary

District/Borough boundary

Watercourse

Water body

Woodland (not verified by survey)

Population size class survey - visits completed

Population size class survey - incomplete

Presence/absence survey conducted - reptiles assumed absent

Scoping visit only - scoped out

Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:

A High

A Medium

A Low

A Absent

Common lizard:

CL High

CL Medium

CL Low

CL Absent

Grass snake:

GS High

GS Medium

GS Low

GS Absent

Slow worm:

SW High

SW Medium

SW Low

SW Absent

Map Number

EC-07-041

Map Name

Reptiles

Community Forum Area CFA16:

Ladbroke and Southam

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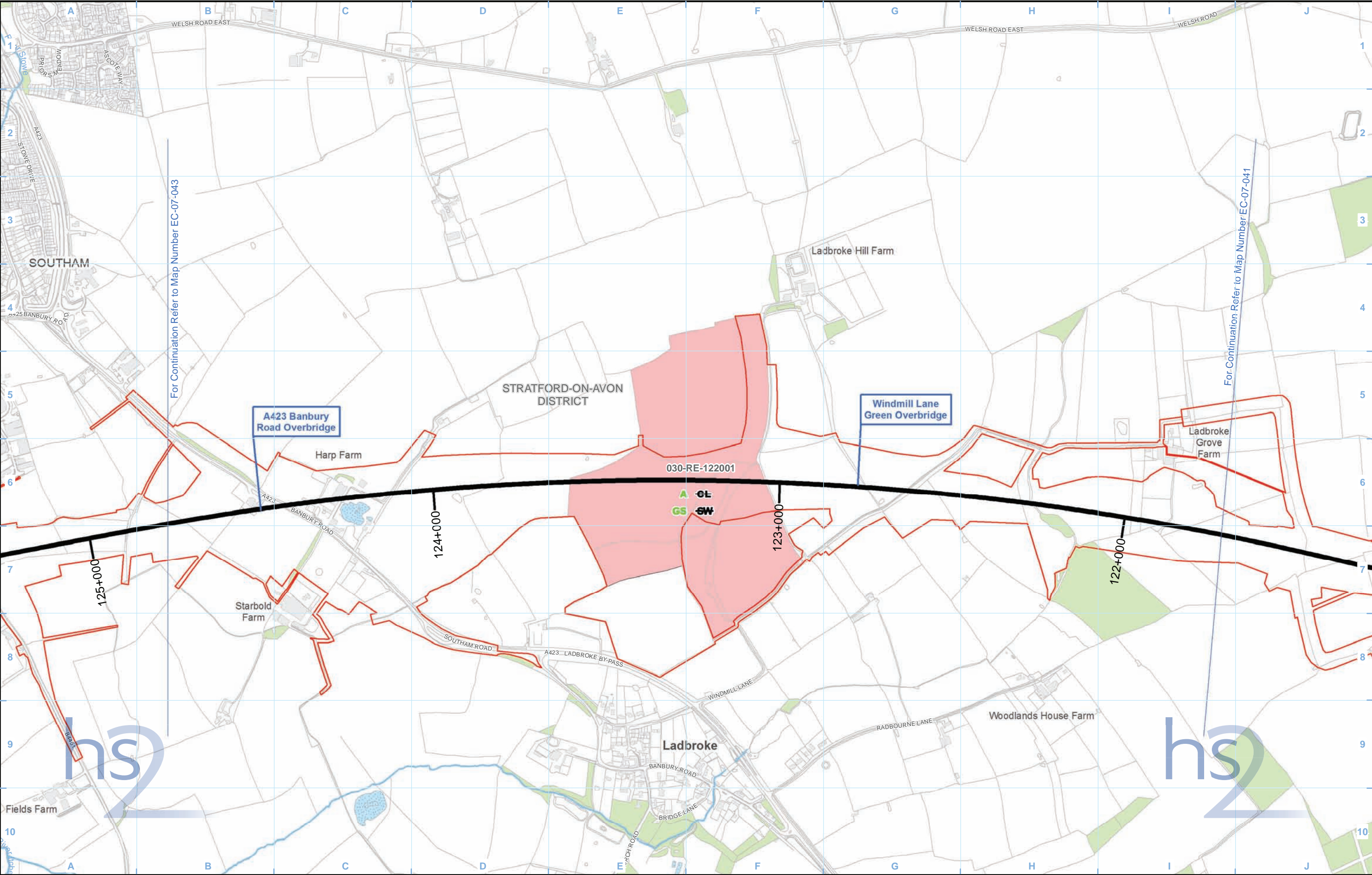
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Doc Number: C253-ATK-EV-MAP-030-000363-P06.00

Scale at A3: 1:10,000

Metres

Date: 28/10/13



Legend

Route in tunnel	Watercourse	Population size class survey - visits completed
Route on surface	Water body	Population size class survey - incomplete
Depot, station, headhouse or portal building	Woodland (not verified by survey)	Presence/absence survey conducted - reptiles assumed absent
Land potentially required during construction		Scoping visit only - scoped out
Community forum boundary		Scoping visit conducted - habitat suitable but no further survey conducted
County boundary		
District/Borough boundary		

Population size class assessment:

Adder:	Common lizard:	Grass snake:	Slow worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number: EC-07-042

Map Name: Reptiles

Community Forum Area CFA16:
Ladbroke and Southam

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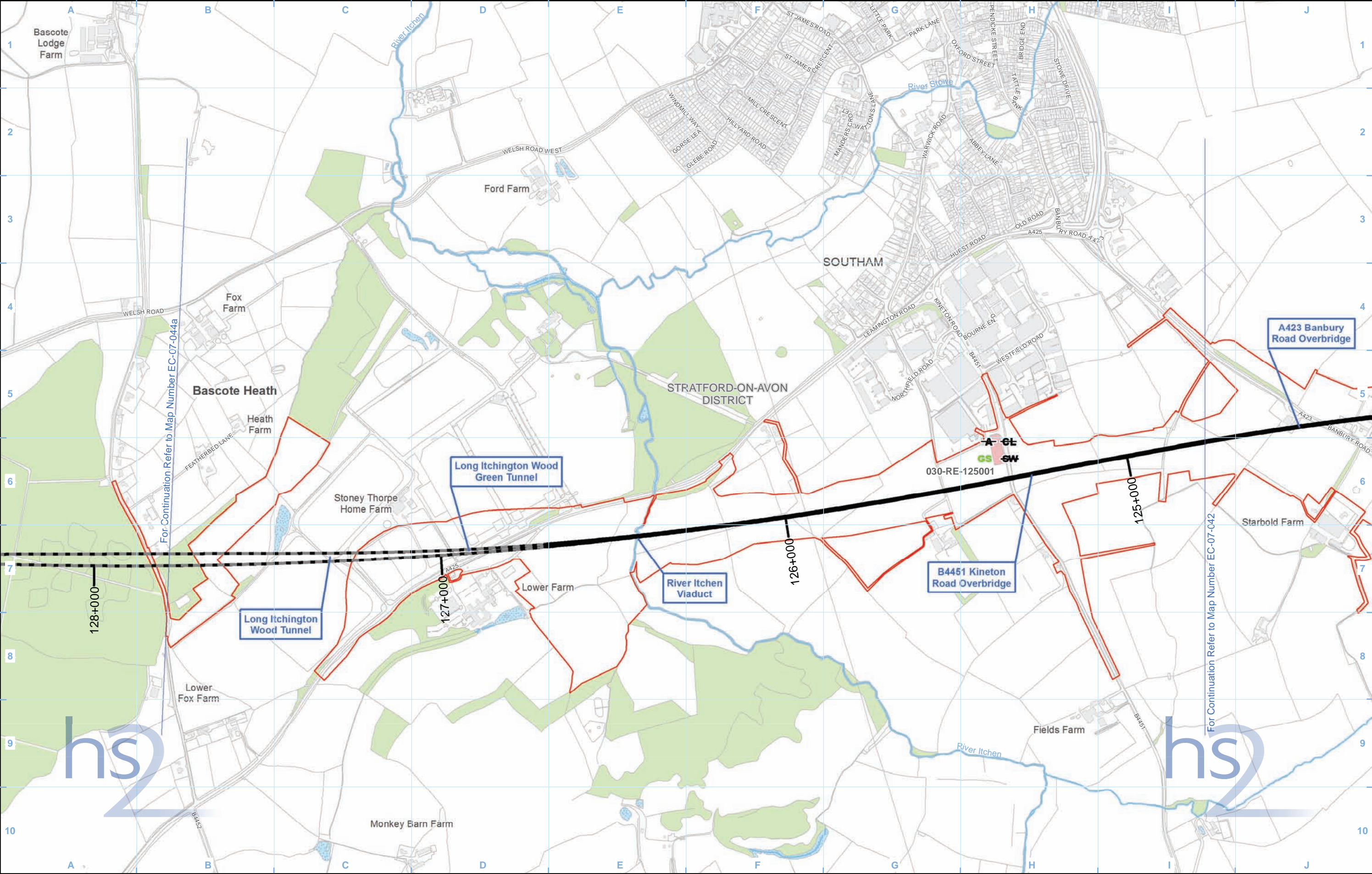
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Doc Number: C253-ATK-EV-MAP-030-000364-P06.00

Date: 28/10/13

Scale at A3: 1:10,000

0 100 200 300 400 Metres



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community forum boundary
- County boundary
- District/Borough boundary

- Watercourse
- Water body
- Woodland (not verified by survey)

- Population size class survey - visits completed
- Population size class survey - incomplete
- Presence/absence survey conducted - reptiles assumed absent
- Scoping visit only - scoped out
- Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common lizard:	Grass snake:	Slow worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number
EC-07-043

Map Name
Reptiles

Community Forum Area CFA16:
Ladbroke and Southam

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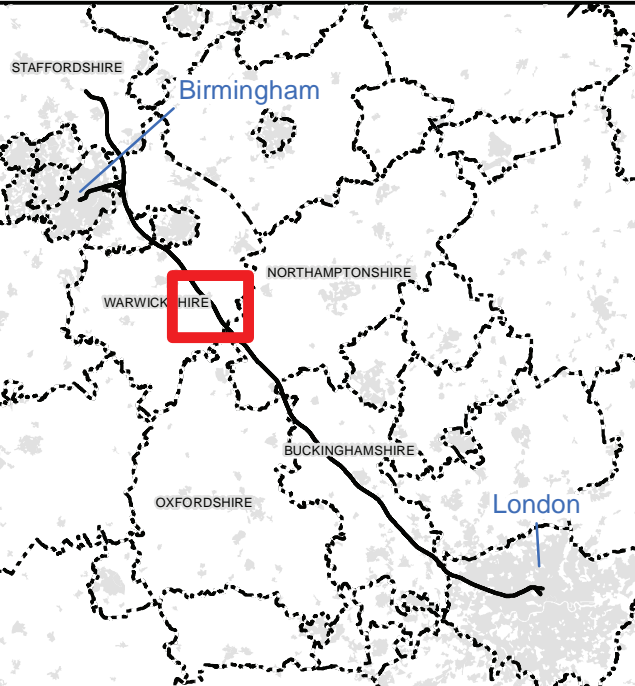
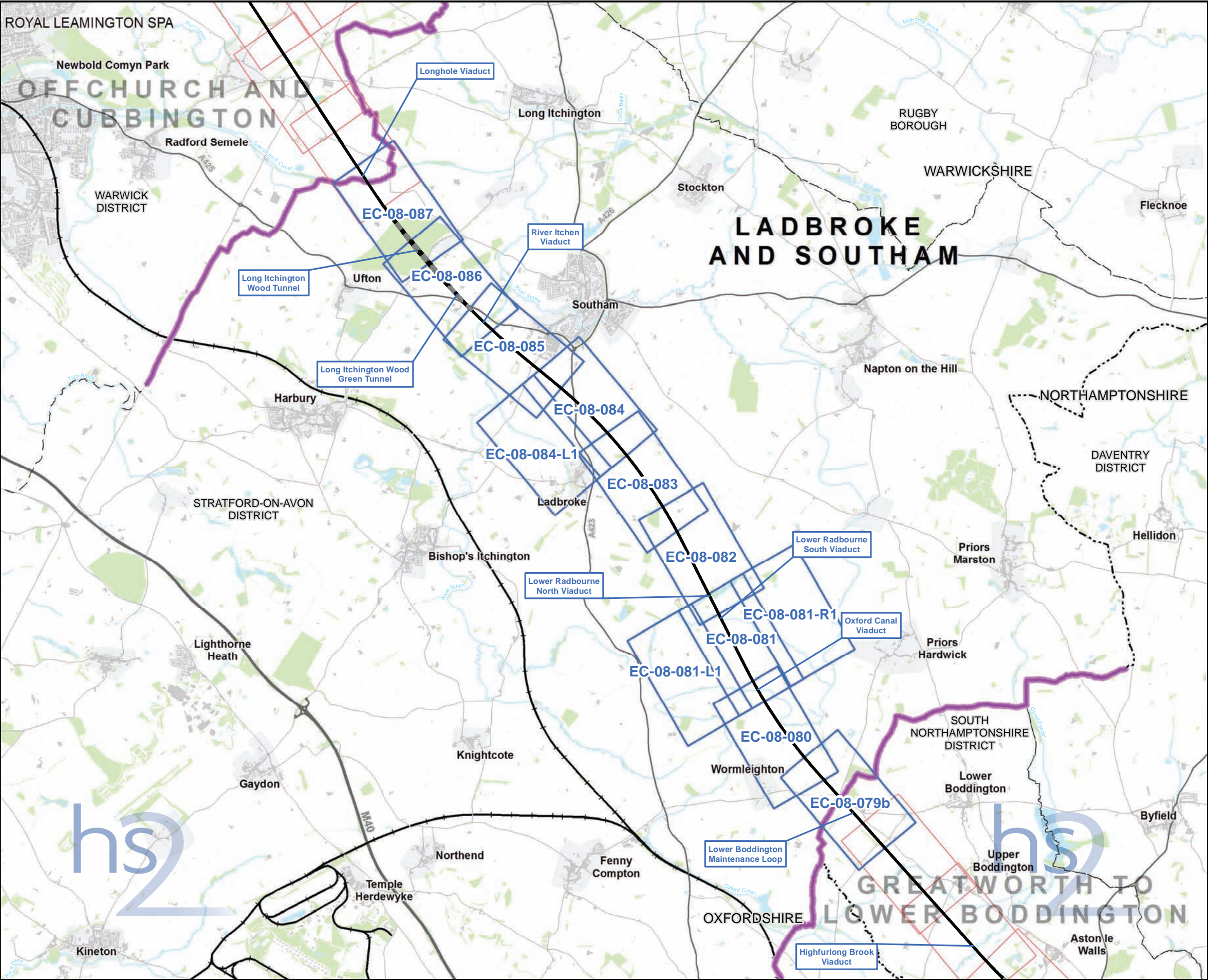
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LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

EC-o8 – Breeding Birds – Protected and Notable Species



Map Series Information:

This map series shows records of protected/notable breeding birds that are considered most relevant in considering the impacts of the Proposed Scheme on breeding birds. The location of nest sites for species such as barn owl and raptor species which may be liable to persecution are not displayed.

Note: Not all data layers in the legend are represented on every map.

Main Map Legend <ul style="list-style-type: none">Route in tunnelRoute on surfaceDepot, station, headhouse or portal buildingCommunity forum boundaryExisting railway stationCounty boundaryDistrict/Borough boundaryMap sheets included in this community forumMap sheets not included in this community forum	<p>Map Number: EC-08-INDEX-CFA16</p> <p>Map Name: Index Map of: Breeding Birds – Protected and Notable Species</p> <p>Community Forum Area CFA16: Ladbroke and Southam</p>	<p>hs2</p> <p>Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU.</p> <p>Scale at A3: 1:65,000</p> <p>© Crown copyright and database rights 2013 Ordnance Survey Licence Number 100049190.</p> <p>Doc Number: C253-ATK-EV-MAP-030-001207-P06.00</p> <p>Date: 22/10/13</p>
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			Community Forum Area (CFA) where species recorded and considered relevant to the assessment			
BTO species code	Common name	Protected status	CFA 1-6	CFA 7-15	CFA 16-22	CFA 23-26
BH	Black-headed Gull	BoCC amber listed, localised and scarce				✓
CA	Cormorant	Localised breeding species		✓		✓
CB	Corn bunting	BoCC red listed*, local and scarce		✓	✓	✓
CK	Cuckoo	BoCC concern red listed, local and scarce	✓	✓		✓
CN	Common tern	BoCC amber listed, local		✓		✓
FC	Firecrest	Schedule 1, BoCC amber listed, local				✓
GA	Gadwall	BoCC amber listed, scarce breeding species		✓		✓
GH	Grasshopper warbler	BoCC red listed, local		✓		✓
GW	Garden warbler	local	✓			✓
H.	Grey heron	Localised breeding species				✓
KF	Kingfisher	Annex 1, Schedule 1, BoCC amber list			✓	✓
L.	Lapwing	BoCC red listed, localised flocks.	✓	✓	✓	✓
LG	Little grebe	BOCC Amber listed				✓
LS	Lesser spotted woodpecker	BoCC red listed, now local and scarce		✓	✓	✓
MA	Mallard	BoCC amber listed				✓
MP	Meadow Pipit	BoCC amber listed, localised breeding species	✓			✓
MT	Marsh tit	BoCC red listed, localised	✓	✓	✓	✓
N.	Nightingale	BoCC amber listed, scarce and local				✓
OC	Oystercatcher	BoCC amber listed, localised and scarce (WMM)		✓	✓	✓
P.	Grey partridge	BoCC red listed, scarce		✓	✓	✓
RK	Redshank	BoCC amber listed, scarce inland				✓
RN	Raven	Locally rare		✓		✓
SF	Spotted flycatcher	BoCC red listed, scarce		✓	✓	✓
SM	Sand martin	BoCC amber listed			✓	
SV	Shoveler	BoCC amber listed, scarce breeding species		✓		
TD	Turtle dove	BoCC red listed, local and scarce				✓
TS	Tree sparrow	BoCC red listed, local and scarce		✓	✓	✓
TU	Tufted duck	BoCC amber listed				✓
WK	Woodcock	BoCC amber listed, under-recorded				✓
WT	Willow tit	BoCC red listed, localised and v scarce		✓		✓
YW	Yellow wagtail	BoCC red listed, scarce and local		✓	✓	✓

* Birds of Conservation Concern, which are in severe decline. Easton et al (2009).

Map Name	EC-08 - Legend
Map Name	EC-08 - Breeding Birds - Protected and Notable Species Legend



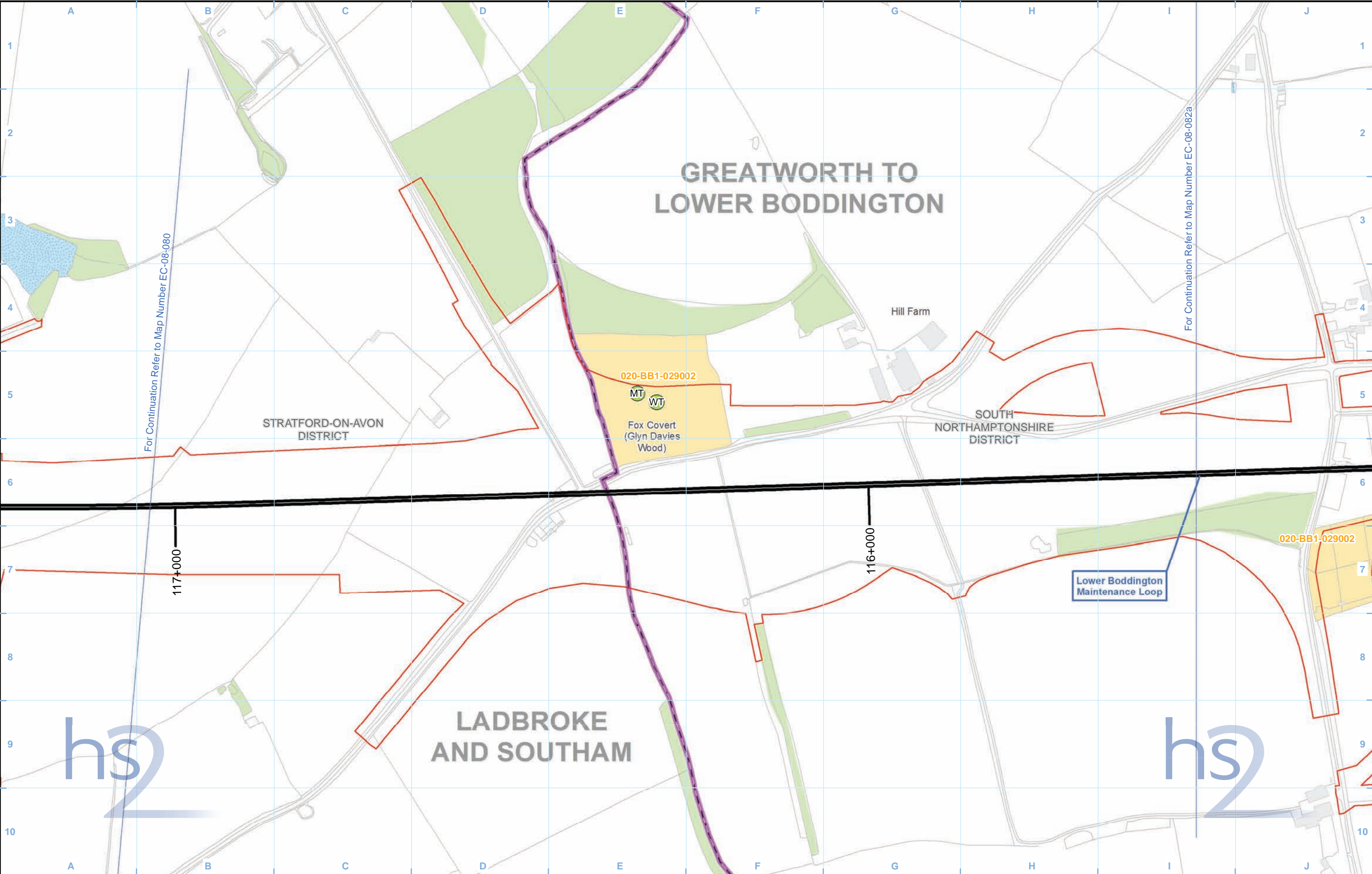
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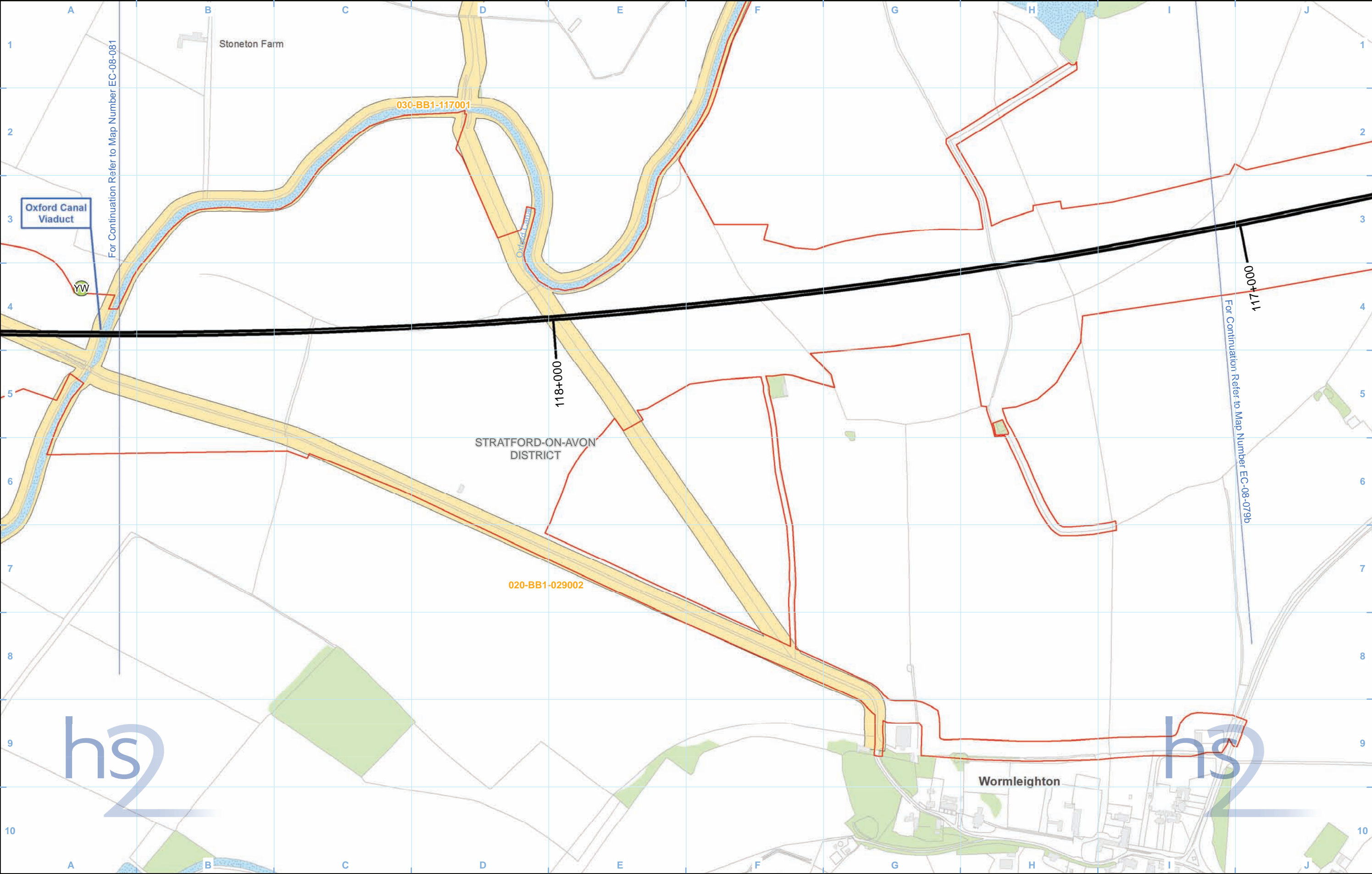
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Date: 23/10/13



Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community forum boundary District/Borough boundary	Watercourse Water body Woodland (verified by survey)	Breeding birds - protection status: Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Species listed on Birds of Conservation Concern list relevant to assessment – See Volume 5 Appendices Other notable species relevant to assessment - see Volume 5 Appendices	Breeding birds - survey extent For full legend please refer to EC-08 - Legend page
Map Number EC-08-079b Map Name Breeding Birds – Protected and Notable Species Community Forum Area CFA16: Ladbroke and Southam				
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Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

District/Borough boundary

Watercourse

Water body

Woodland (verified by survey)

Breeding birds - protection status:

- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act

Species listed on Birds of Conservation Concern list relevant to assessment – See Volume 5 Appendices

Other notable species relevant to assessment - see Volume 5 Appendices

Breeding birds - survey extent

For full legend please refer to EC-08 - Legend page

Map Number: EC-08-080

Map Name: Breeding Birds – Protected and Notable Species

Community Forum Area CFA16: Ladbroke and Southam

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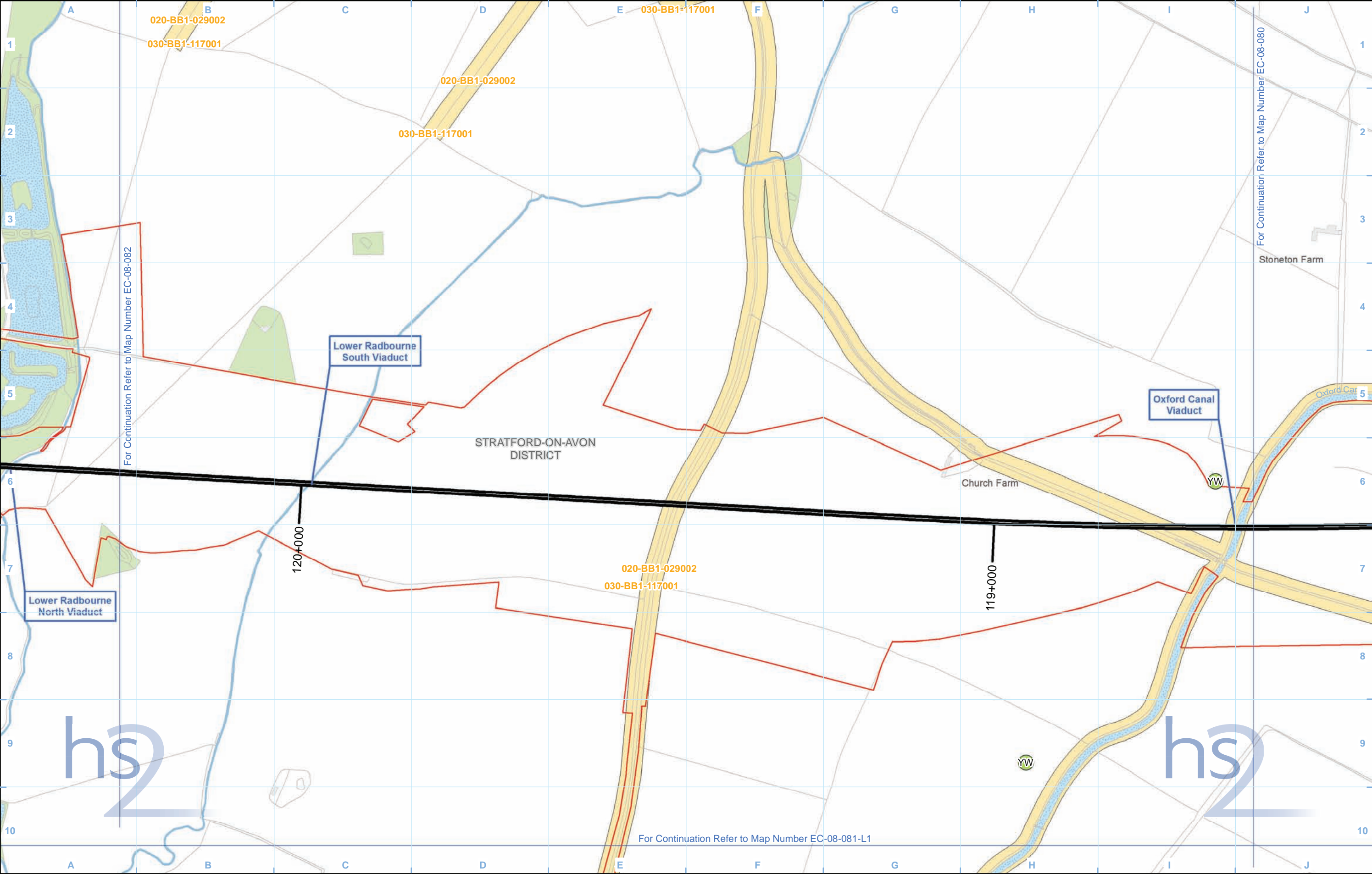
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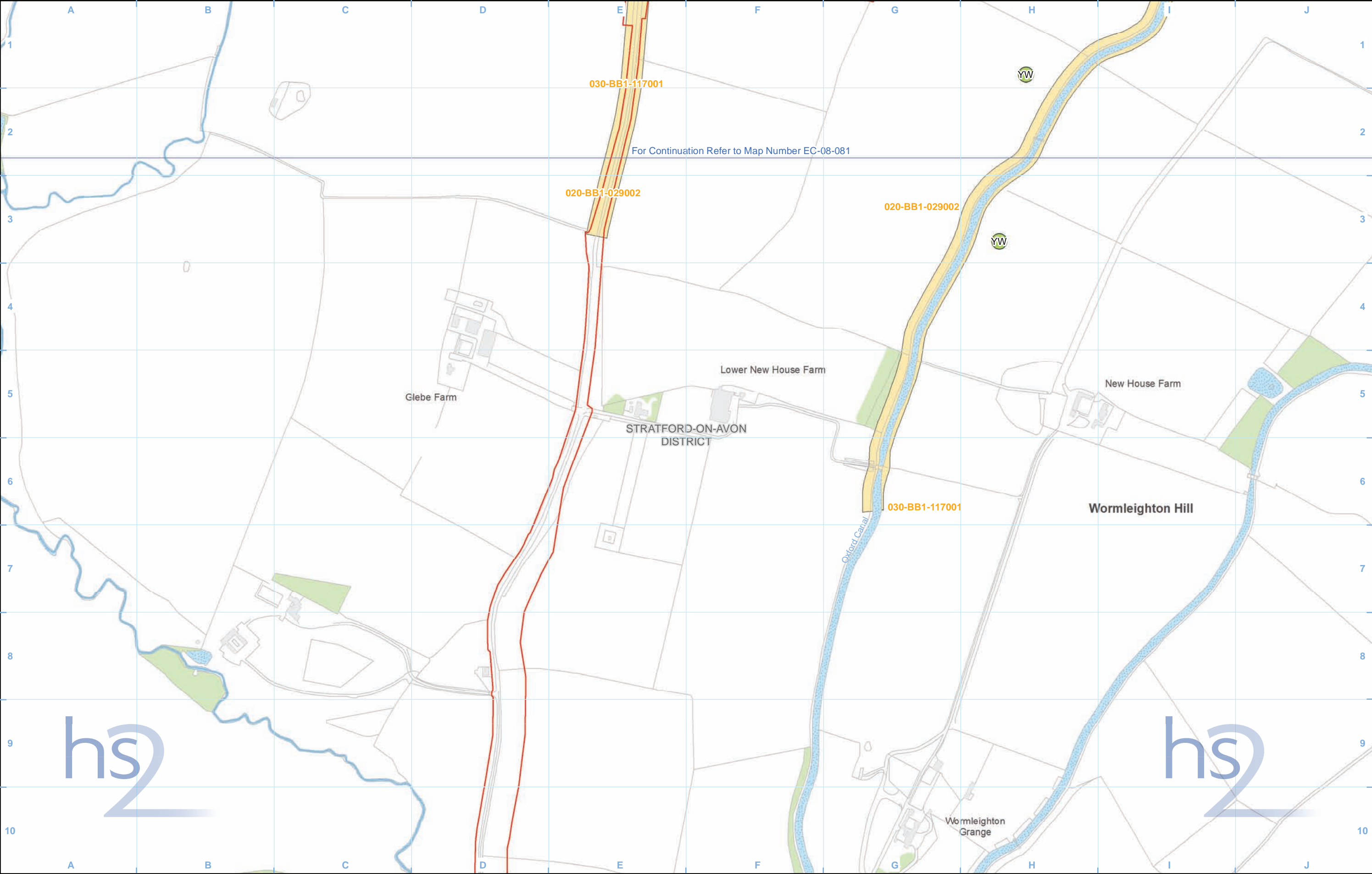
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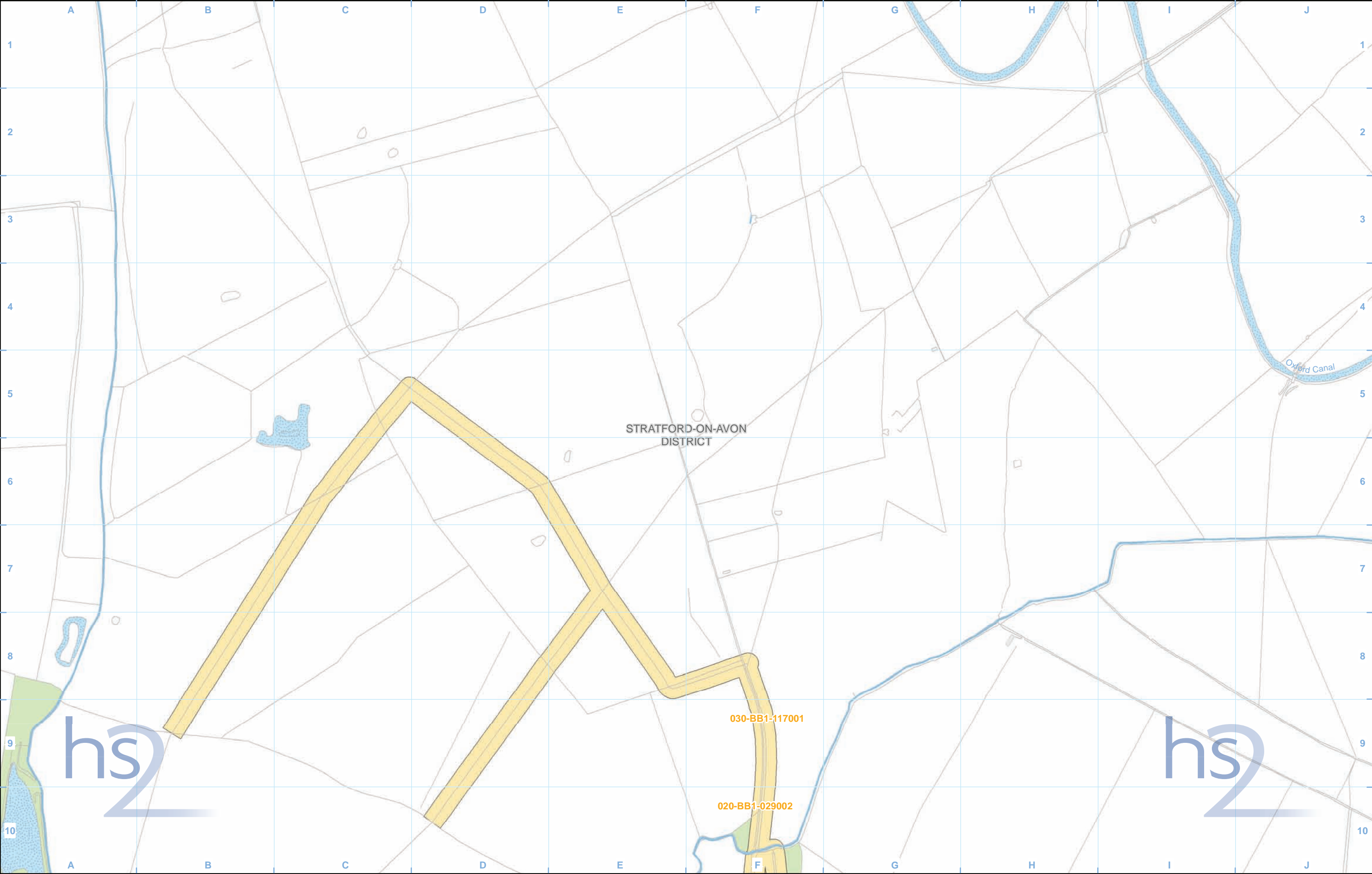
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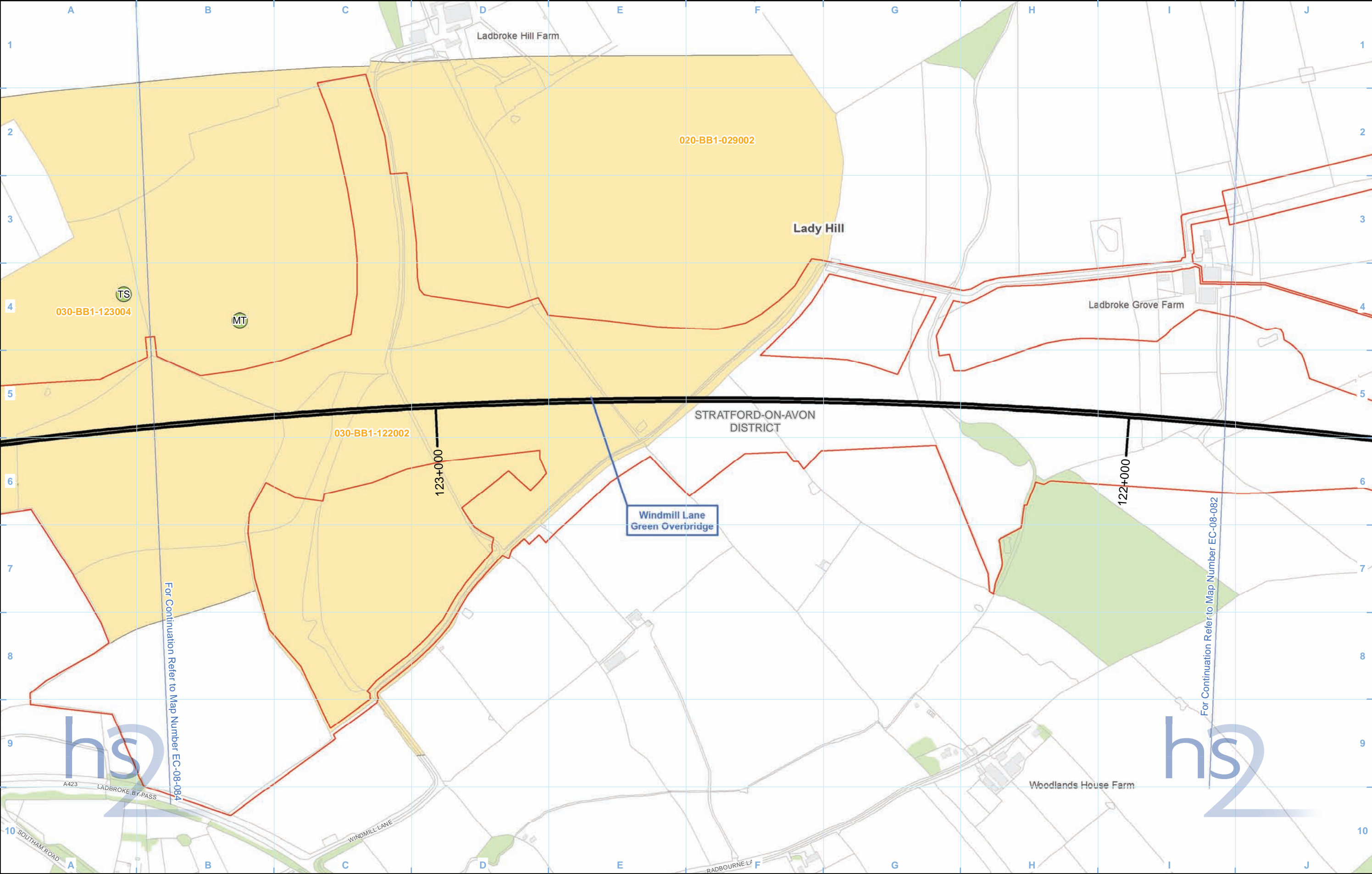
Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community forum boundary District/Borough boundary	Watercourse Water body Woodland (verified by survey)	Breeding birds - protection status: Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Species listed on Birds of Conservation Concern list relevant to assessment – See Volume 5 Appendices Other notable species relevant to assessment - see Volume 5 Appendices	Breeding birds - survey extent For full legend please refer to EC-08 - Legend page
Map Number EC-08-081 Map Name Breeding Birds – Protected and Notable Species Community Forum Area CFA16: Ladbroke and Southam				
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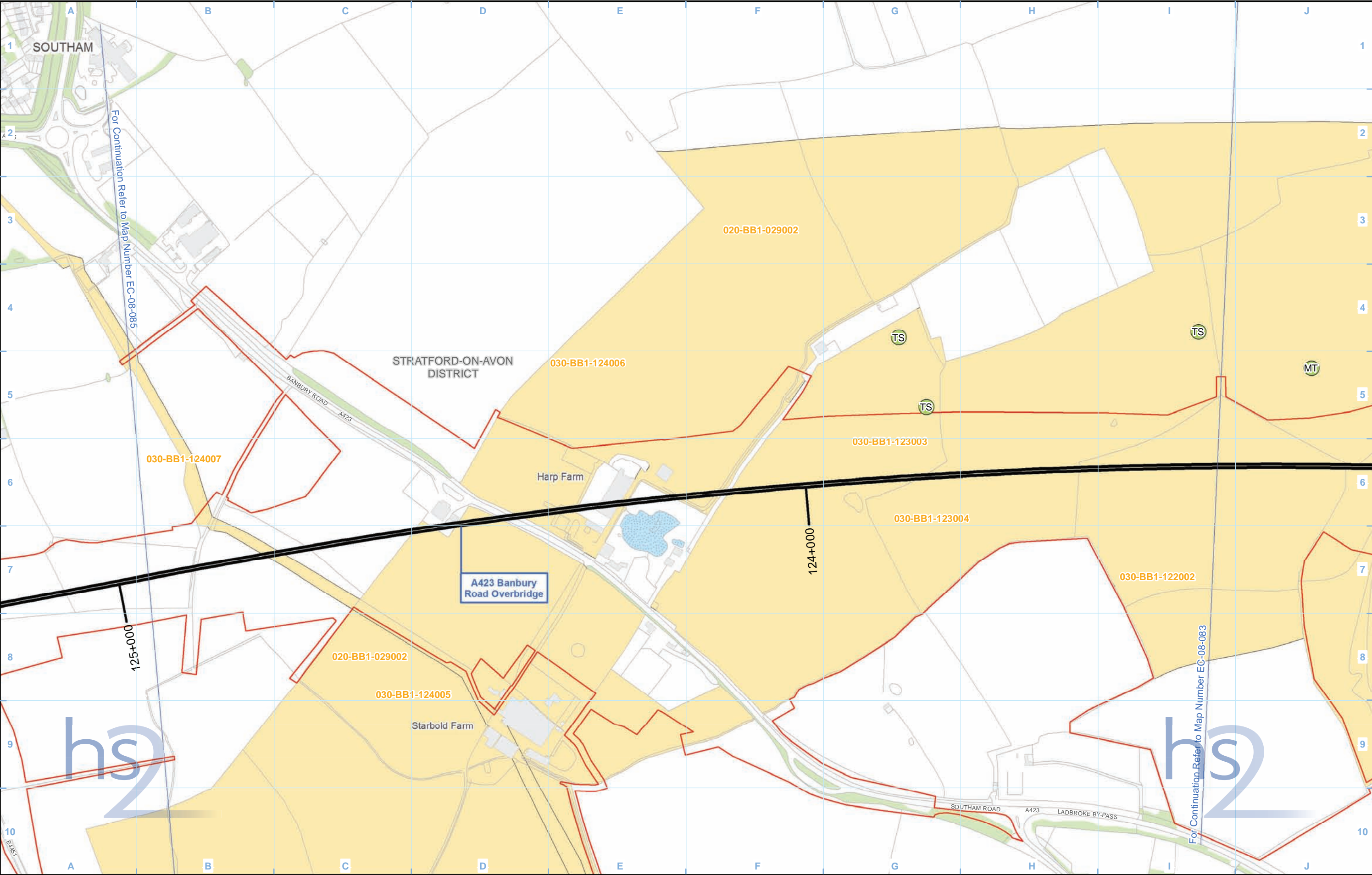
Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community forum boundary District/Borough boundary	Watercourse Water body Woodland (verified by survey)	Breeding birds - protection status: Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Species listed on Birds of Conservation Concern list relevant to assessment – See Volume 5 Appendices Other notable species relevant to assessment - see Volume 5 Appendices	Breeding birds - survey extent For full legend please refer to EC-08 - Legend page
Map Number EC-08-081-L1 Map Name Breeding Birds – Protected and Notable Species Community Forum Area CFA16: Ladbroke and Southam				
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Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community forum boundary District/Borough boundary	Watercourse Water body Woodland (verified by survey)	Breeding birds - protection status: Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Species listed on Birds of Conservation Concern list relevant to assessment – See Volume 5 Appendices Other notable species relevant to assessment - see Volume 5 Appendices	Breeding birds - survey extent For full legend please refer to EC-08 - Legend page
Map Number EC-08-081-R1 Map Name Breeding Birds – Protected and Notable Species Community Forum Area CFA16: Ladbroke and Southam				
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Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community forum boundary District/Borough boundary	Watercourse Water body Woodland (verified by survey)	Breeding birds - protection status: Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Species listed on Birds of Conservation Concern list relevant to assessment - See Volume 5 Appendices Other notable species relevant to assessment - see Volume 5 Appendices	Breeding birds - survey extent For full legend please refer to EC-08 - Legend page
Map Number EC-08-083 Map Name Breeding Birds – Protected and Notable Species Community Forum Area CFA16: Ladbroke and Southam				
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Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

District/Borough boundary

Watercourse

Water body

Woodland (verified by survey)

Breeding birds - protection status:

- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act

Species listed on Birds of Conservation Concern list relevant to assessment – See Volume 5 Appendices

Other notable species relevant to assessment - see Volume 5 Appendices

Breeding birds - survey extent

For full legend please refer to EC-08 - Legend page

Map Number: EC-08-084

Map Name: Breeding Birds – Protected and Notable Species

Community Forum Area CFA16: Ladbroke and Southam

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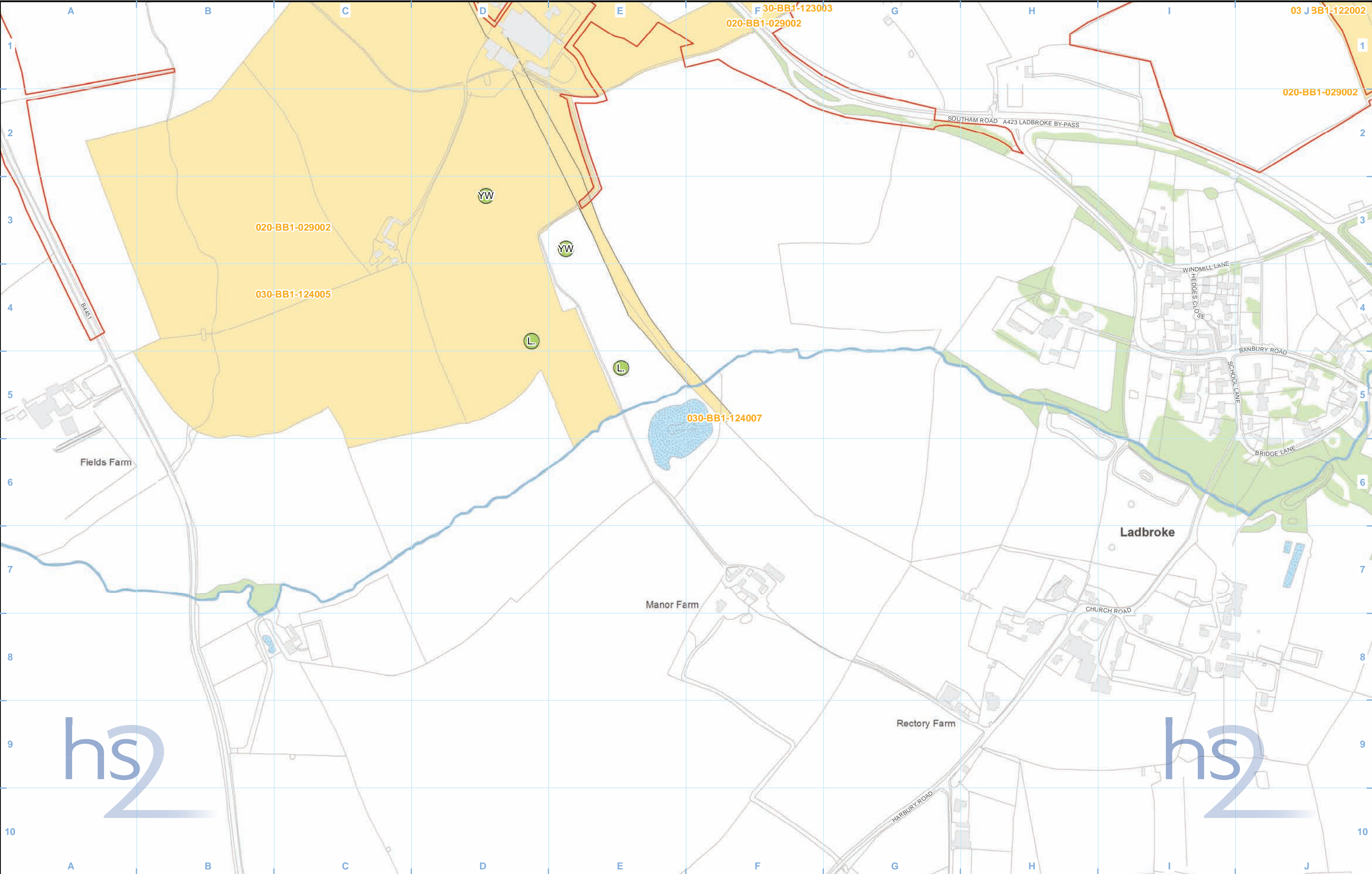
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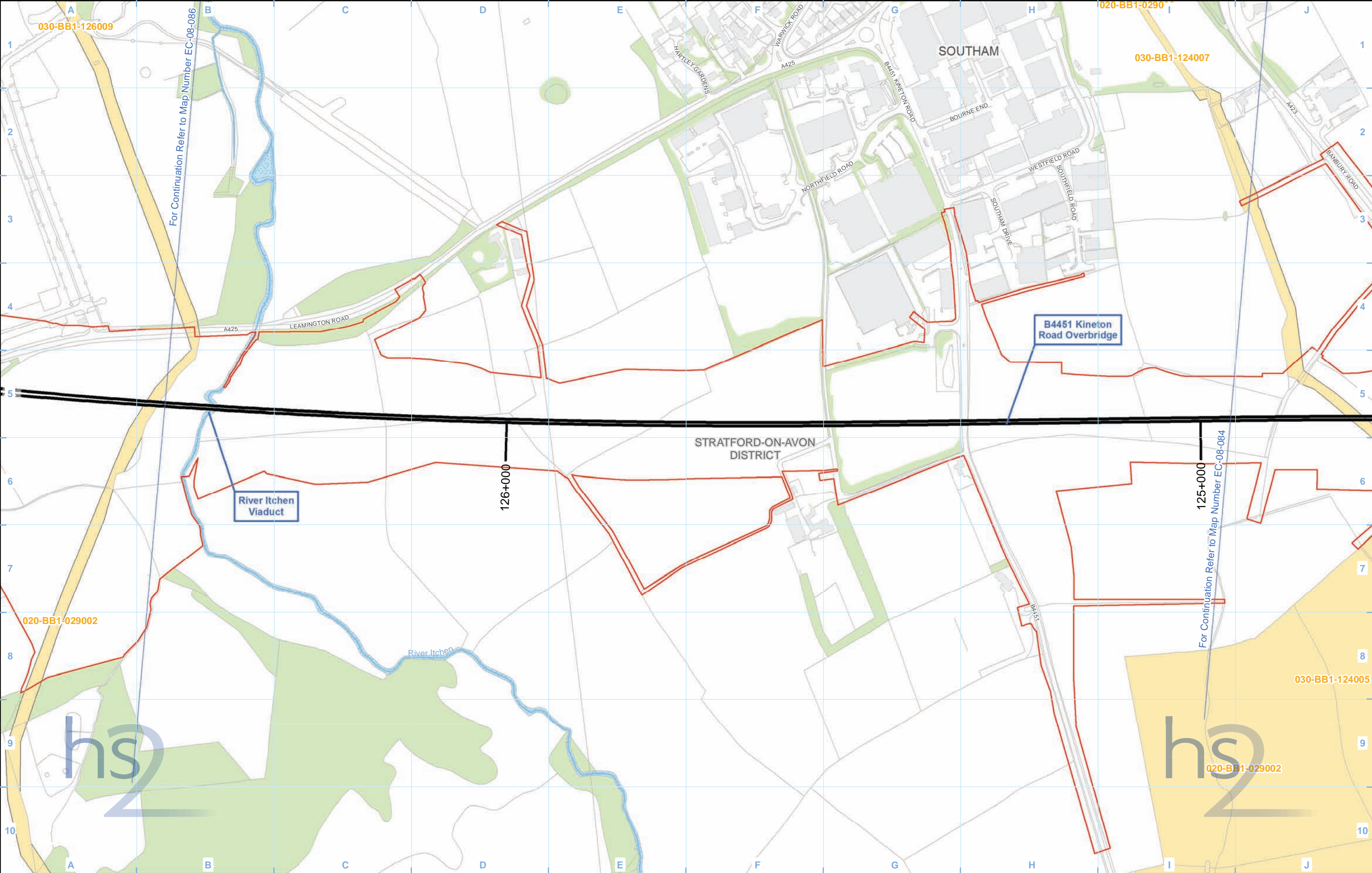
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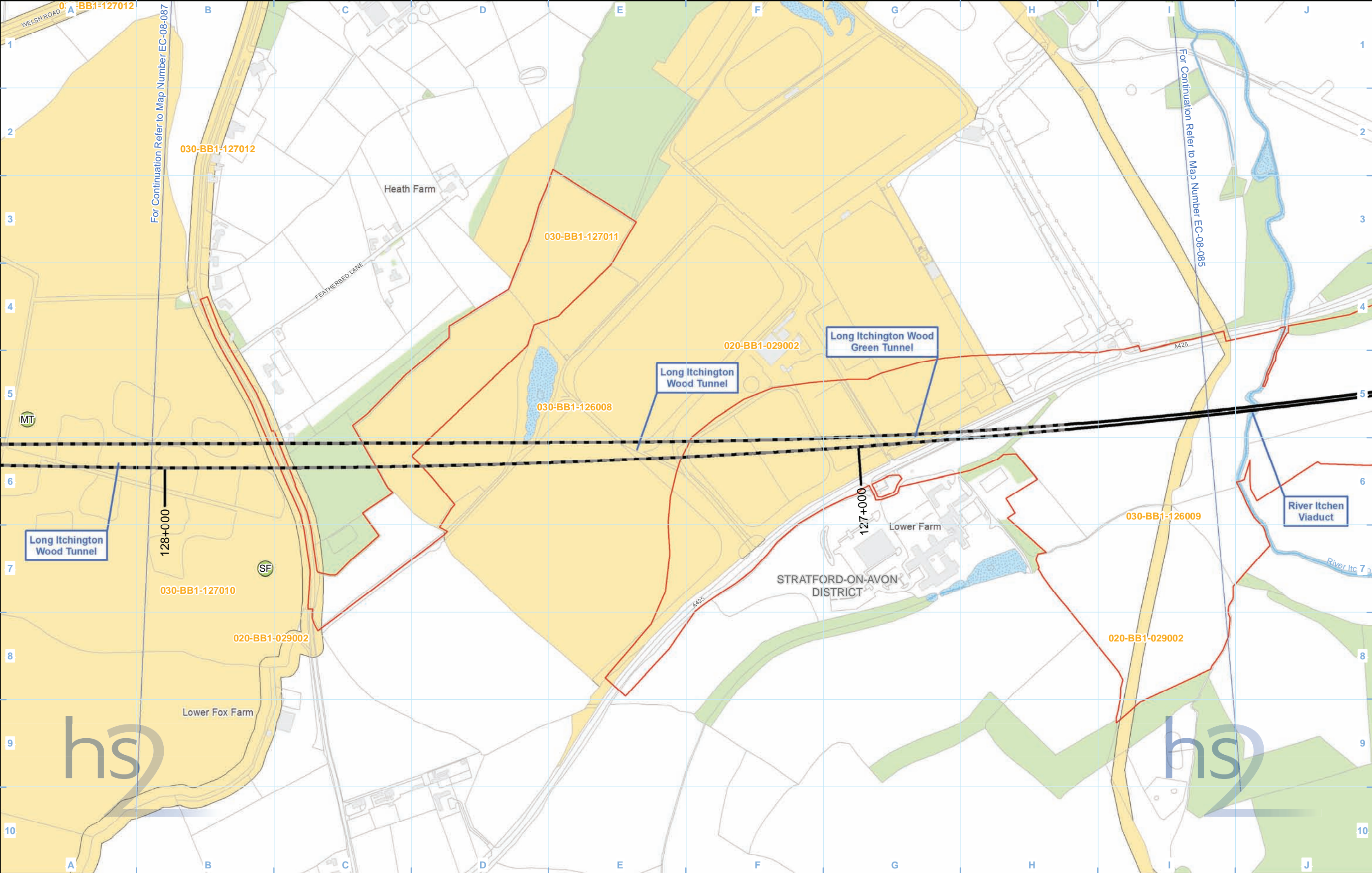
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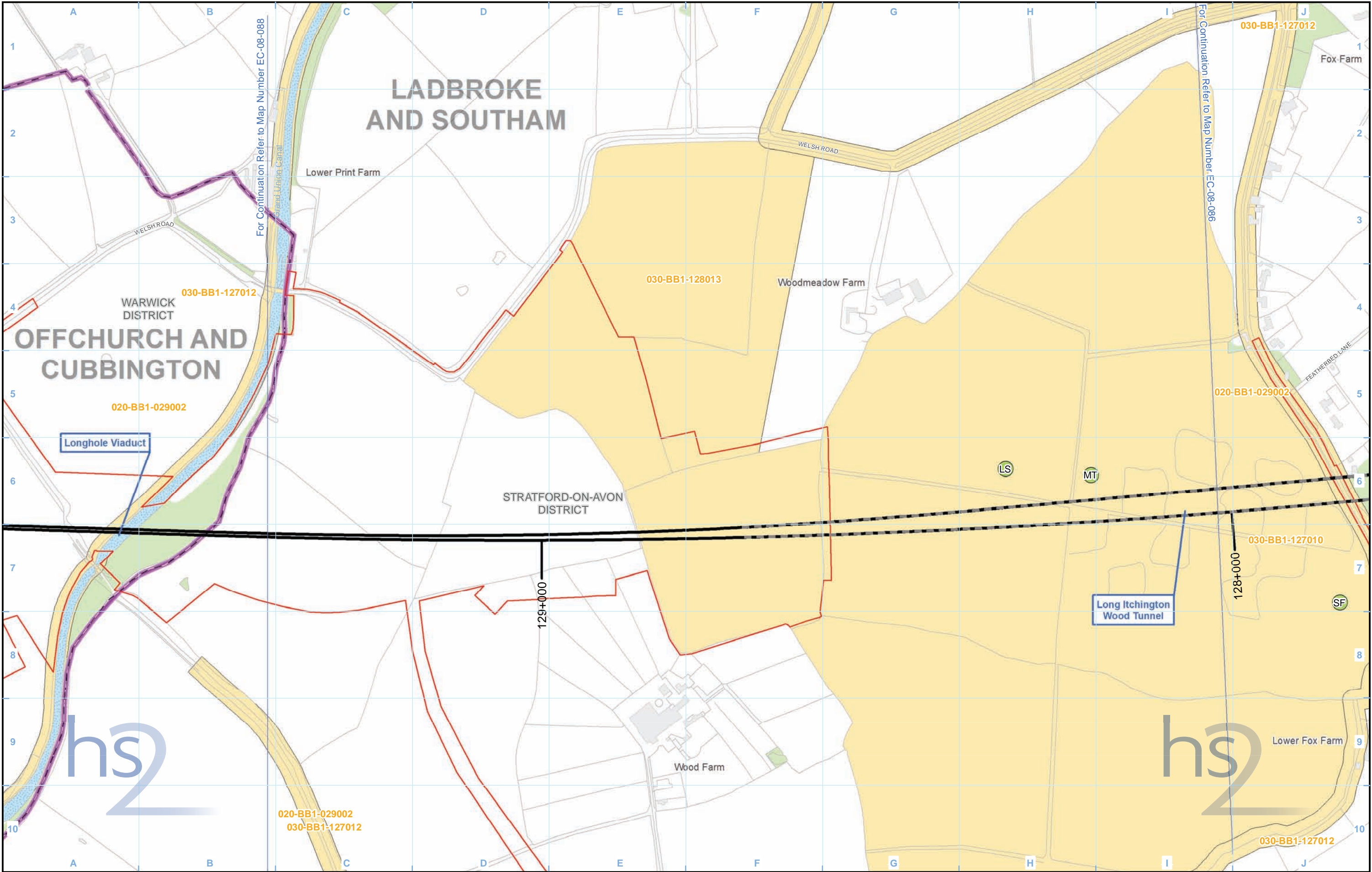
Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community forum boundary District/Borough boundary	Watercourse Water body Woodland (verified by survey)	Breeding birds - protection status: Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Species listed on Birds of Conservation Concern list relevant to assessment – See Volume 5 Appendices Other notable species relevant to assessment - see Volume 5 Appendices	Breeding birds - survey extent For full legend please refer to EC-08 - Legend page
Map Number EC-08-084-L1 Map Name Breeding Birds – Protected and Notable Species Community Forum Area CFA16: Ladbroke and Southam				
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Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community forum boundary District/Borough boundary	Watercourse Water body Woodland (verified by survey)	Breeding birds - protection status: Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Species listed on Birds of Conservation Concern list relevant to assessment - See Volume 5 Appendices Other notable species relevant to assessment - see Volume 5 Appendices	Breeding birds - survey extent For full legend please refer to EC-08 - Legend page
Map Number EC-08-085 Map Name Breeding Birds – Protected and Notable Species Community Forum Area CFA16: Ladbroke and Southam				
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Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community forum boundary District/Borough boundary	Watercourse Water body Woodland (verified by survey)	Breeding birds - protection status: Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Species listed on Birds of Conservation Concern list relevant to assessment - See Volume 5 Appendices Other notable species relevant to assessment - see Volume 5 Appendices	Breeding birds - survey extent For full legend please refer to EC-08 - Legend page
Map Number EC-08-086 Map Name Breeding Birds – Protected and Notable Species Community Forum Area CFA16: Ladbroke and Southam				
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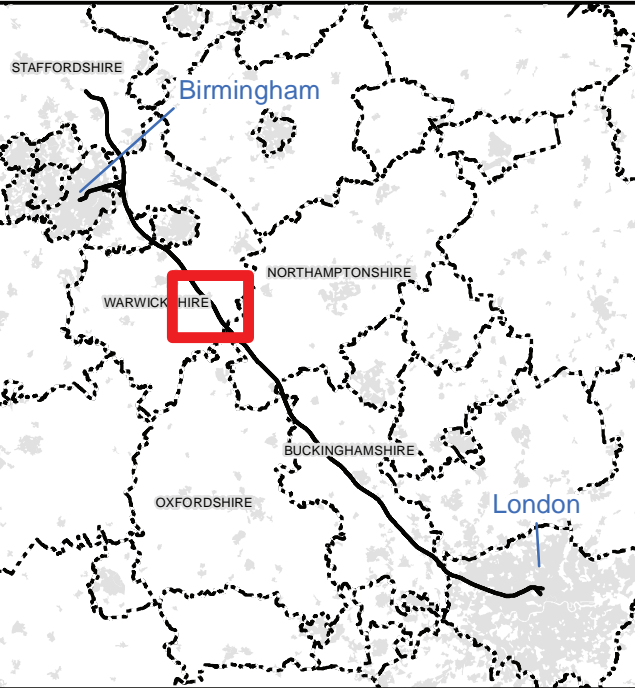
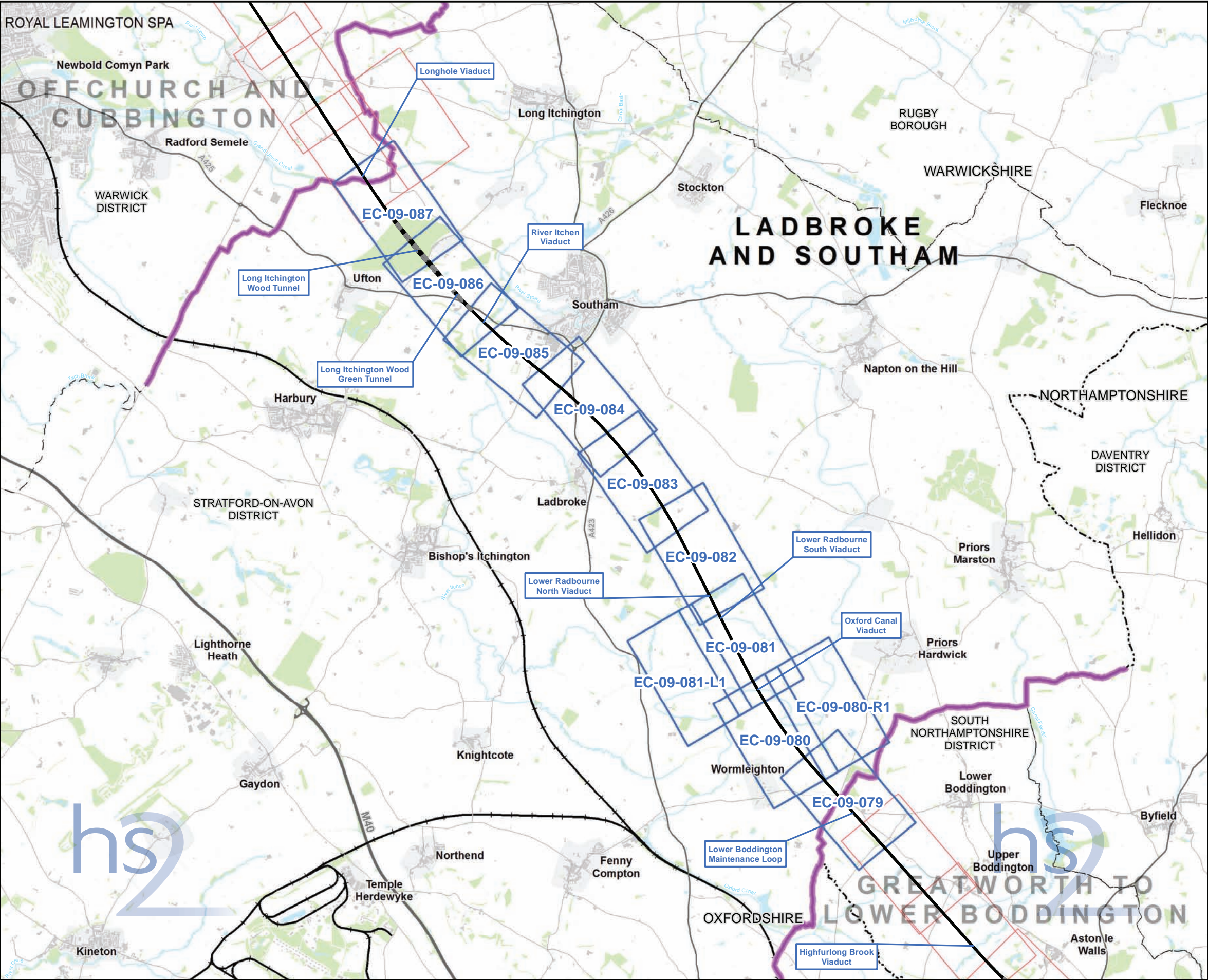


Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community forum boundary District/Borough boundary	Watercourse Water body Woodland (verified by survey)	Breeding birds - protection status: Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Species listed on Birds of Conservation Concern list relevant to assessment - See Volume 5 Appendices Other notable species relevant to assessment - see Volume 5 Appendices	Breeding birds - survey extent For full legend please refer to EC-08 - Legend page
Map Number EC-08-087 Map Name Breeding Birds – Protected and Notable Species Community Forum Area CFA16: Ladbroke and Southam				
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LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

EC-09 – Wintering and Passage Birds – Protected and Notable Species



Map Series Information:

This map series shows records of selected protected/notable wintering birds that are considered most relevant in considering the impacts of the Proposed Scheme.

Note: Not all data layers in the legend are represented on every map.

Main Map Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Community forum boundary

Existing railway station

County boundary

District/Borough boundary

Map sheets included in this community forum

Map sheets not included in this community forum

Map Number

EC-09-INDEX-CFA16

Map Name

Index Map of:
Wintering and Passage Birds –
Protected and Notable Species

Community Forum Area CFA16:
Ladbroke and Southam

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0650130019502600

Metres

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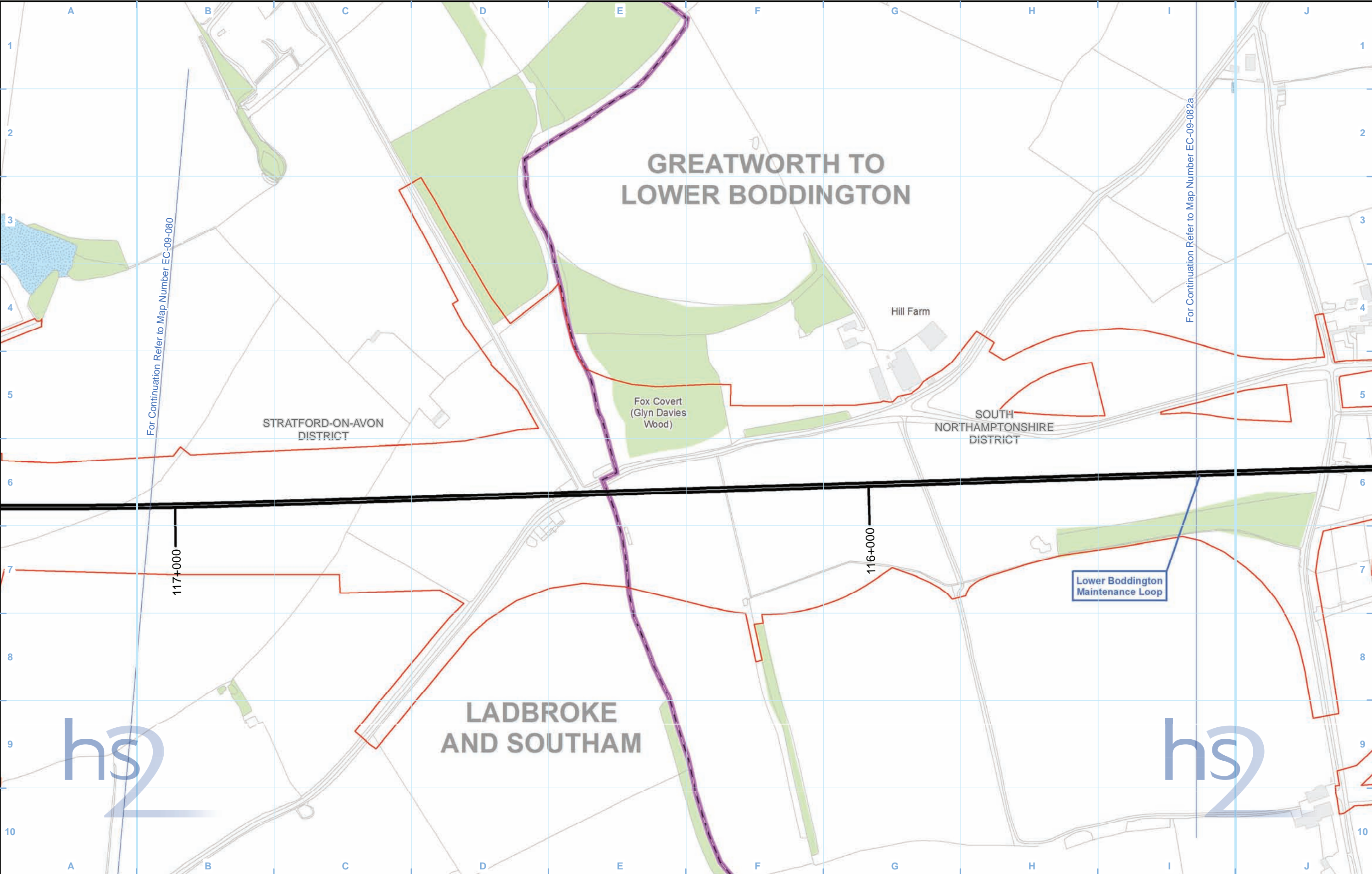
N

Date: 25/10/13

			Community Forum Area (CFA) where species recorded and considered relevant to the assessment			
BTO species code	Common name	Protected status	CFA 1-6	CFA 7-15	CFA 16-22	CFA 23-26
BC	Blackcap	Scarce in winter				✓
BL	Brambling	Schedule 1		✓	✓	✓
BO	Barn owl	Schedule 1, BoCC amber listed*, localised and scarce			✓	✓
CB	Corn bunting	BoCC red listed**, local and scarce			✓	✓
CC	Chiffchaff	Scarce in winter				✓
CW	Cetti's warbler	Schedule 1, scarce and local		✓		✓
ET	Little egret	Annex 1, BoCC amber listed, scarce	✓	✓	✓	✓
GA	Gadwall	BoCC amber List		✓	✓	✓
GE	Green sandpiper	Schedule 1, scarce and local in winter		✓	✓	✓
GN	Goldeneye	BOCC amber list		✓		
GP	Golden plover	Annex 1, BoCC amber listed, localised flocks		✓	✓	✓
JS	Jack snipe	BoCC amber list			✓	
KF	Kingfisher	Annex 1, Schedule 1, BoCC amber list	✓	✓	✓	
KT	Red Kite	Annex 1, Schedule 1, BoCC amber listed	✓	✓		
L.	Lapwing	BoCC red listed, localised flocks		✓	✓	✓
LE	Long-eared owl	Local and scarce				✓
LG	Little grebe	BoCC amber listed			✓	✓
LS	Lesser spotted woodpecker	BoCC red listed, now local and scarce		✓	✓	✓
MA	Mallard	BoCC amber listed				✓
ML	Merlin	Annex 1, Schedule 1, BoCC amber listed		✓		
MT	Marsh tit	BoCC red listed, localised		✓	✓	✓
P.	Grey partridge	BoCC red listed, scarce		✓	✓	✓
PE	Peregrine	Annex 1, Schedule 1		✓	✓	
PO	Pochard	BoCC amber listed		✓	✓	✓
RN	Raven	Locally rare		✓		✓
S.	Skylark	BoCC red listed, localised flocks				✓
SN	Snipe	BoCC amber listed, localised flocks			✓	✓
SU	Shelduck	BOCC amber listed			✓	✓
SV	Shoveler	BoCC amber listed, scarce breeding species		✓		✓
T.	Teal	BoCC amber listed		✓	✓	✓
TS	Tree sparrow	BoCC red listed, local and scarce		✓	✓	✓
TU	Tufted duck	BoCC amber listed			✓	✓
WK	Woodcock	BoCC amber listed, under-recorded		✓	✓	✓
WN	Wigeon	BoCC amber listed		✓		✓
WT	Willow tit	BoCC red listed, localised and very scarce		✓	✓	✓

* Birds of Conservation Concern, which are declining moderately. Eaton, M.A., Brown, A.F., Noble, D.G., Musgrove, A.J., Hearn, R., Aebischer, N.J., Gibbons, D.W., Evans, A. and Gregory, R.D. (2009) Birds of Conservation Concern 3: the population status of birds in the United Kingdom, Channel Islands and the Isle of Man. British Birds 102, pp296-341.

** Birds of Conservation Concern, which are severely decline. Easton et al (2009).



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community forum boundary
- District/Borough boundary

- Watercourse
- Water body
- Woodland (verified by survey)

Wintering and passage birds - protection status:

- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act

- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Species listed on Birds of Conservation Concern list relevant to assessment – See Volume 5 Appendices
- Other notable species relevant to assessment - see Volume 5 Appendices

Wintering and passage birds - survey extent

For full legend please refer to EC-09 - Legend page

Map Number

EC-09-079b

Map Name

Wintering and Passage Birds – Protected and Notable Species

Community Forum Area CFA16: Ladbroke and Southam

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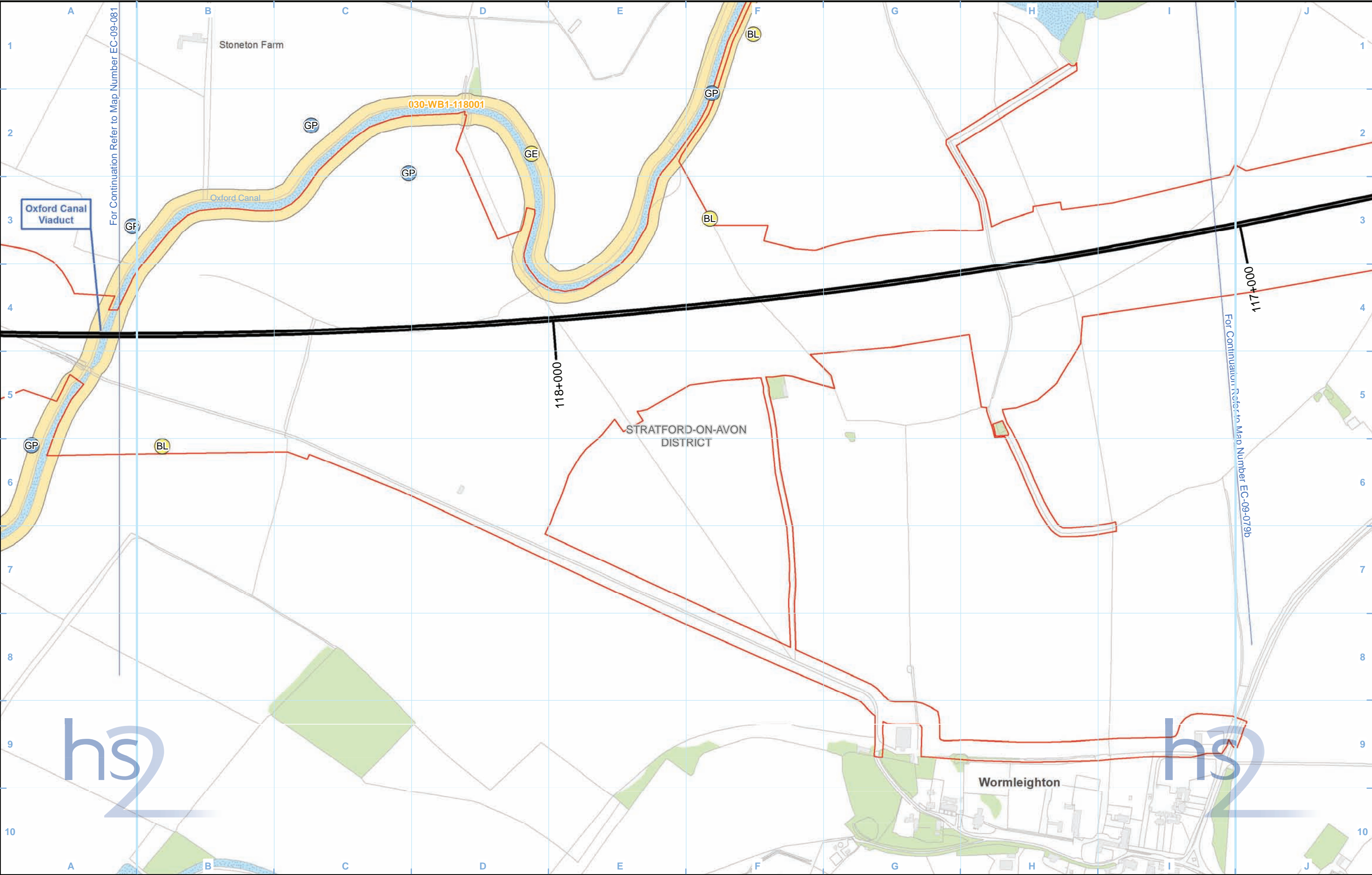
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Date: 25/10/13



Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

District/Borough boundary

Watercourse

Water body

Woodland (verified by survey)

Wintering and passage birds - protection status:

Species listed on Annex I of the Birds Directive

Species listed on Schedule 1 of the Wildlife and Countryside Act

Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act

Species listed on Birds of Conservation Concern list relevant to assessment - See Volume 5 Appendices

Other notable species relevant to assessment - see Volume 5 Appendices

Wintering and passage birds - survey extent

For full legend please refer to EC-09 - Legend page

Map Number

EC-09-080

Map Name

Wintering and Passage Birds – Protected and Notable Species

Community Forum Area CFA16:
Ladbroke and Southam

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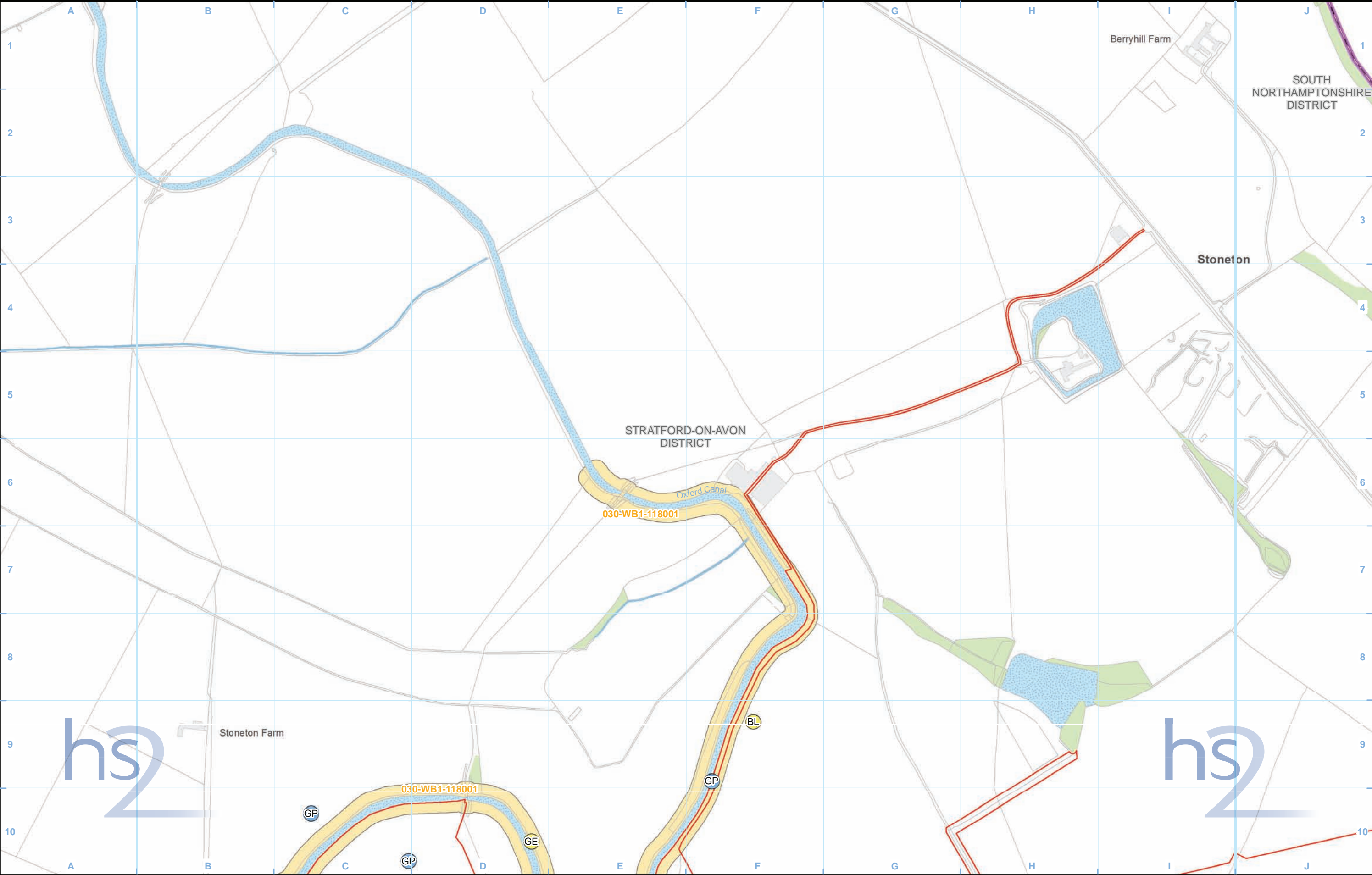
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0 50 100 150 200 Metres

Date: 25/10/13



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community forum boundary
- District/Borough boundary

- Watercourse
- Water body
- Woodland (verified by survey)

Wintering and passage birds - protection status:

- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act

- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Species listed on Birds of Conservation Concern list relevant to assessment - See Volume 5 Appendices
- Other notable species relevant to assessment - see Volume 5 Appendices

- Wintering and passage birds - survey extent

For full legend please refer to EC-09 - Legend page

Map Number

EC-09-080-R1

Map Name

Wintering and Passage Birds – Protected and Notable Species

Community Forum Area CFA16:
Ladbroke and Southam

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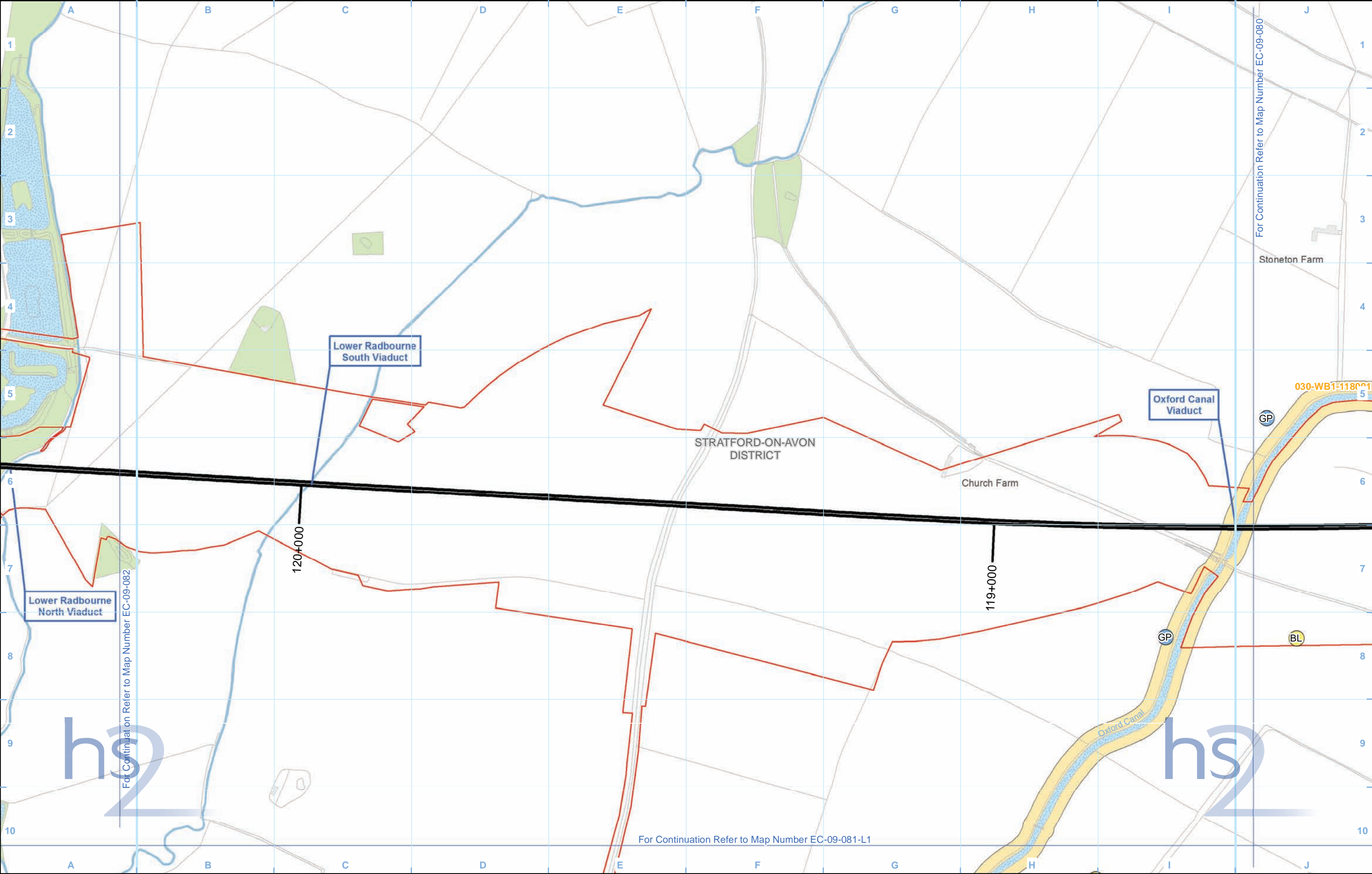
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Date: 25/10/13



Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

District/Borough boundary

Watercourse

Water body

Woodland (verified by survey)

Wintering and passage birds - protection status:

- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act

Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act

Species listed on Birds of Conservation Concern list relevant to assessment – See Volume 5 Appendices

Other notable species relevant to assessment - see Volume 5 Appendices

Wintering and passage birds - survey extent

For full legend please refer to EC-09 - Legend page

Map Number: EC-09-081

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Forum Area CFA16: Ladbroke and Southam

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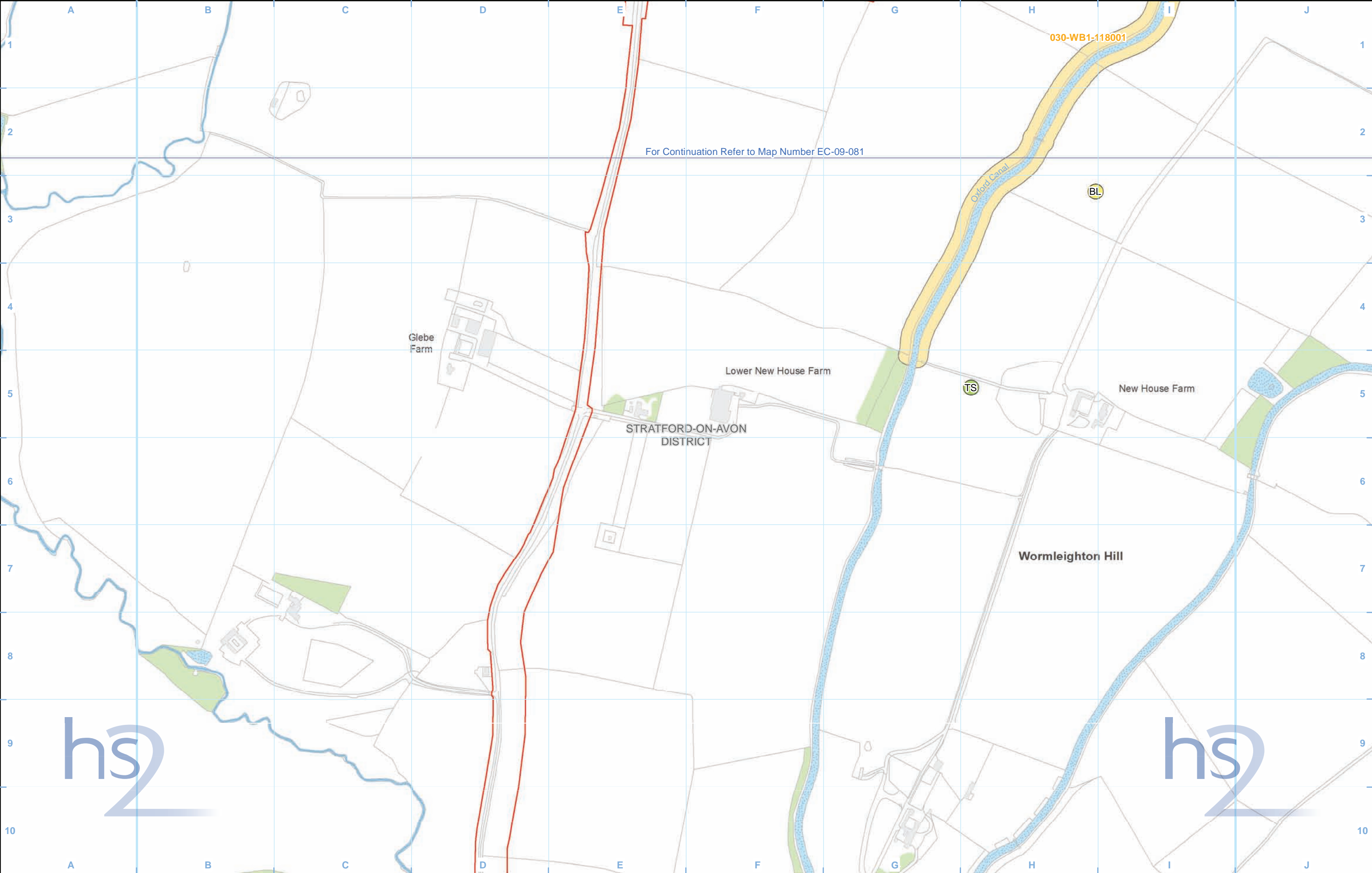
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Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

District/Borough boundary

Watercourse

Water body

Woodland (verified by survey)

Wintering and passage birds - protection status:

Species listed on Annex I of the Birds Directive

Species listed on Schedule 1 of the Wildlife and Countryside Act

Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act

Species listed on Birds of Conservation Concern list relevant to assessment – See Volume 5 Appendices

Other notable species relevant to assessment - see Volume 5 Appendices

Wintering and passage birds - survey extent

For full legend please refer to EC-09 - Legend page

Map Number

EC-09-081-L1

Map Name

Wintering and Passage Birds – Protected and Notable Species

Community Forum Area CFA16:
Ladbroke and Southam

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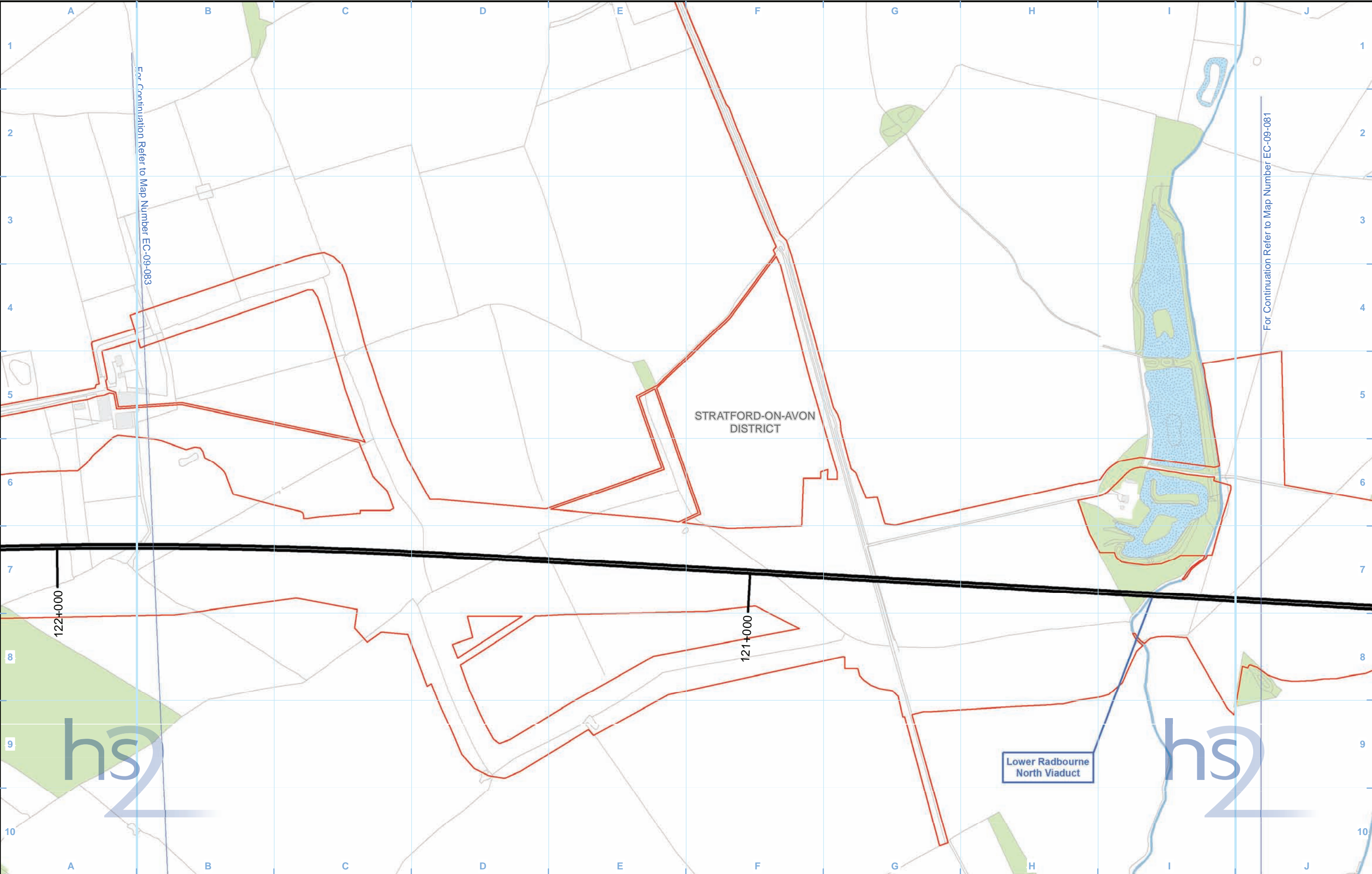
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Metres

Doc Number: C253-ATK-EV-MAP-030-001037-P06.00

Date: 25/10/13



Legend

Route in tunnel
Route on surface
Depot, station, headhouse or portal building
Land potentially required during construction
Community forum boundary
District/Borough boundary

Watercourse
Water body
Woodland (verified by survey)

Wintering and passage birds - protection status:
Species listed on Annex I of the Birds Directive
Species listed on Schedule 1 of the Wildlife and Countryside Act

Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
Species listed on Birds of Conservation Concern list relevant to assessment – See Volume 5 Appendices
Other notable species relevant to assessment - see Volume 5 Appendices

Wintering and passage birds - survey extent
For full legend please refer to EC-09 - Legend page

Map Number
EC-09-082

Map Name
Wintering and Passage Birds – Protected and Notable Species

Community Forum Area CFA16:
Ladbroke and Southam

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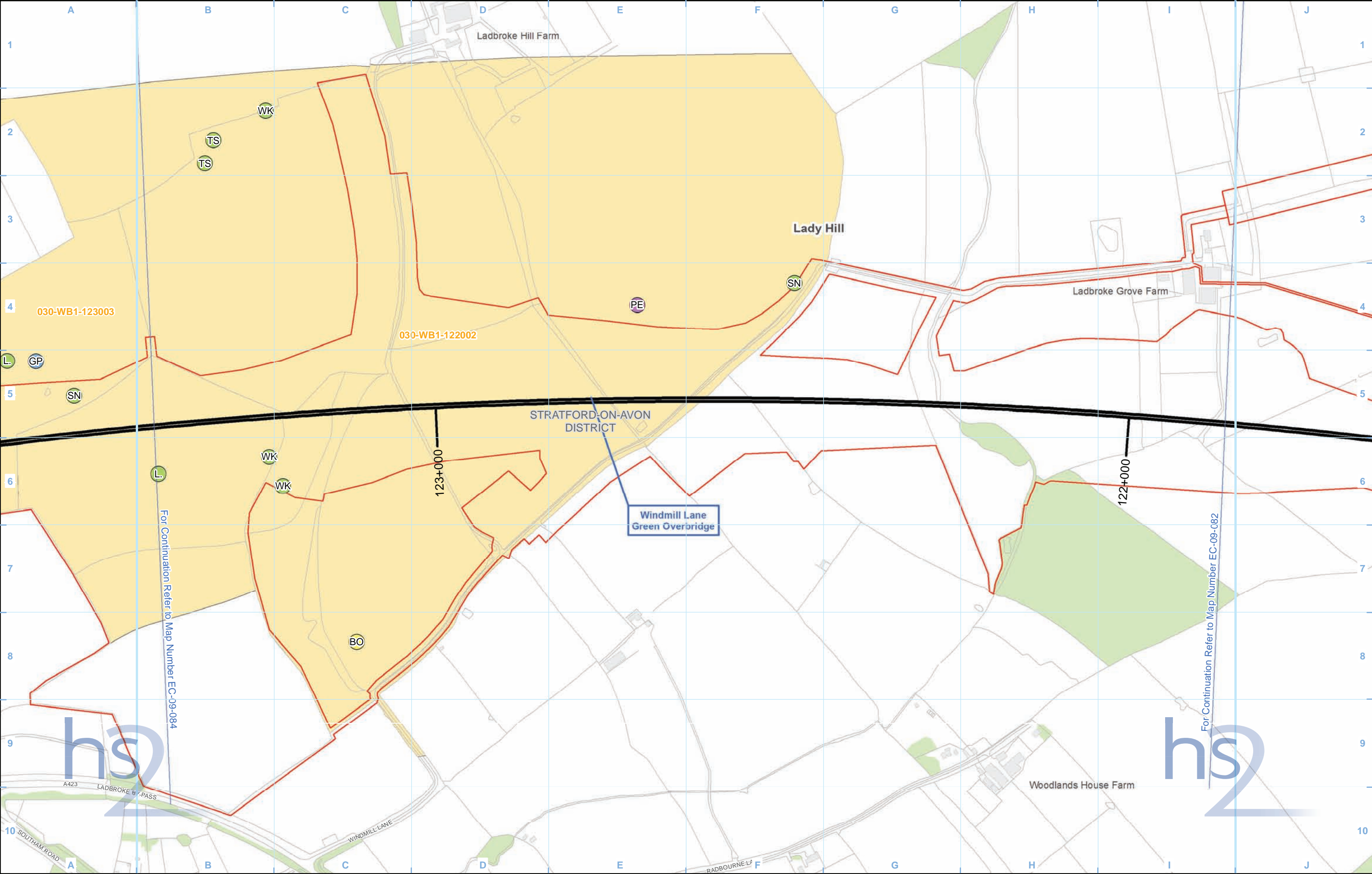
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Date: 25/10/13

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0 50 100 150 200
Metres



Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

District/Borough boundary

Watercourse

Water body

Woodland (verified by survey)

Wintering and passage birds - protection status:

Species listed on Annex I of the Birds Directive

Species listed on Schedule 1 of the Wildlife and Countryside Act

Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act

Species listed on Birds of Conservation Concern list relevant to assessment – See Volume 5 Appendices

Other notable species relevant to assessment - see Volume 5 Appendices

Wintering and passage birds - survey extent

For full legend please refer to EC-09 - Legend page

Map Number

EC-09-083

Map Name

Wintering and Passage Birds – Protected and Notable Species

Community Forum Area CFA16: Ladbroke and Southam

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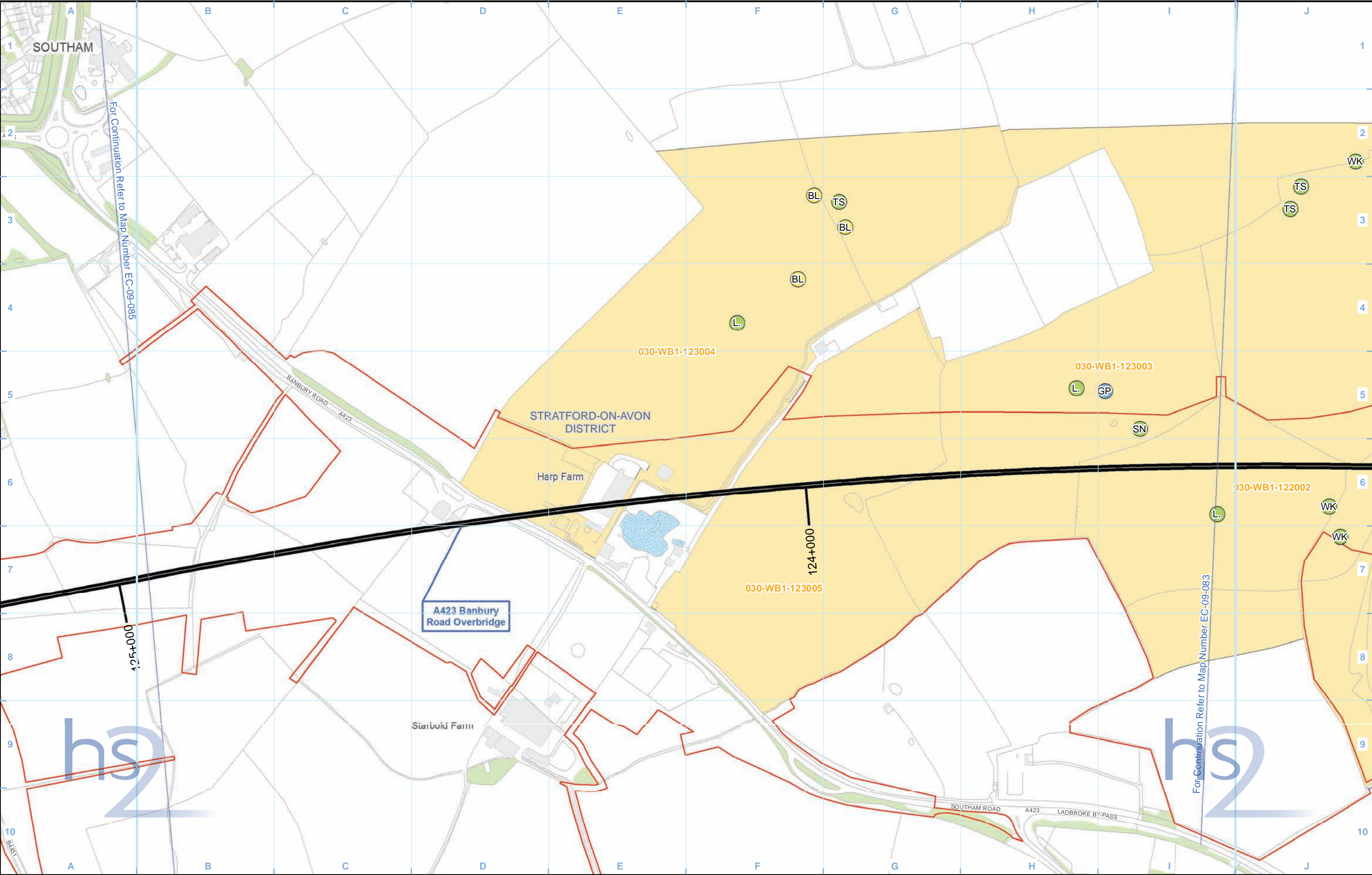
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Date: 25/10/13

Scale at A3: 1:5,000

0 50 100 150 200 Metres



Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

District/Borough boundary

Watercourse

Water body

Woodland (verified by survey)

Wintering and passage birds - protection status:

- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act

Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act

Species listed on Birds of Conservation Concern list relevant to assessment – See Volume 5 Appendices

Other notable species relevant to assessment - see Volume 5 Appendices

Wintering and passage birds - survey extent

For full legend please refer to EC-09 - Legend page

Map Number: EC-09-084

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Forum Area CFA16: Ladbroke and Southam

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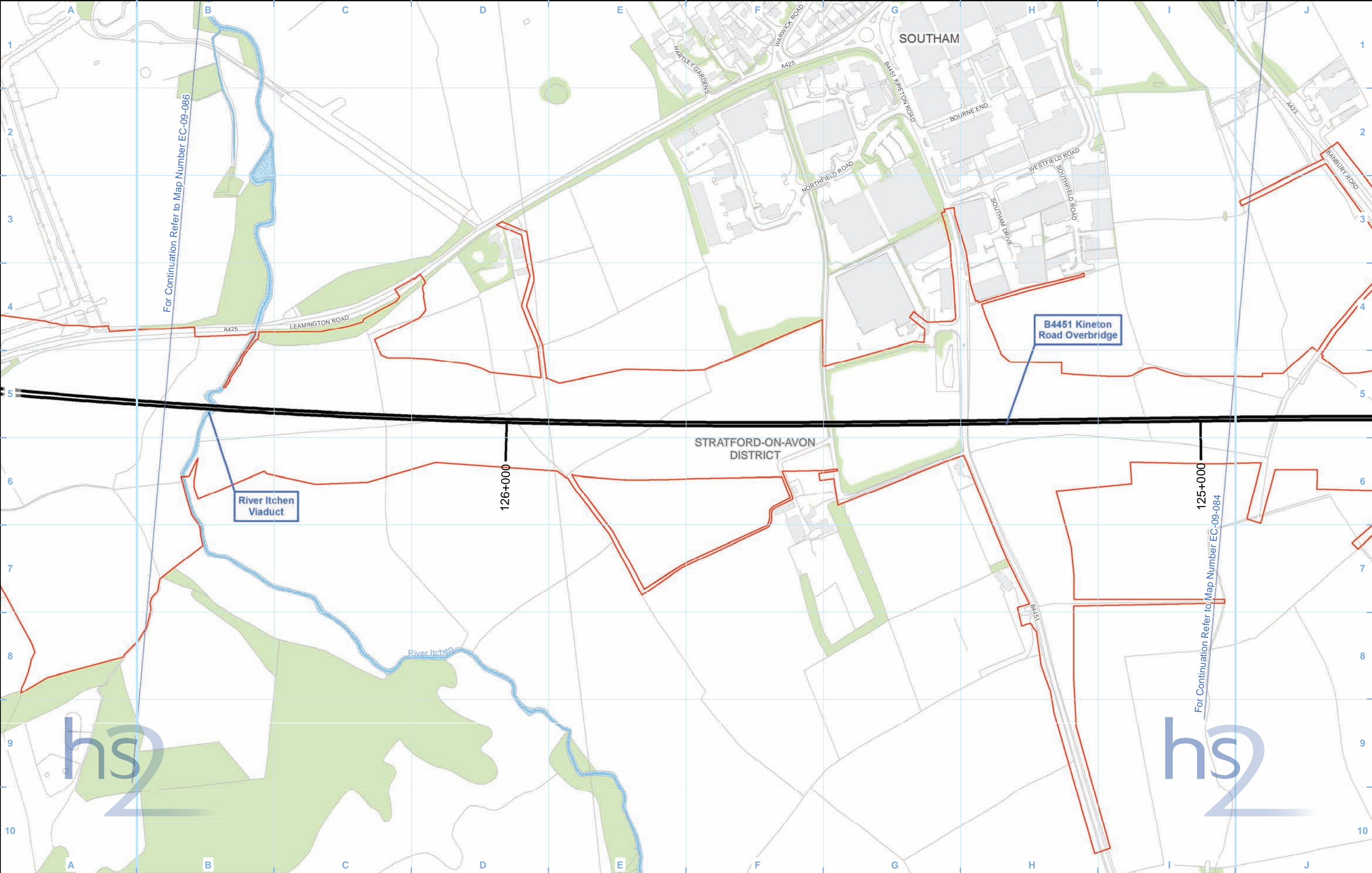
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0 50 100 150 200 Metres



Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

District/Borough boundary

Watercourse

Water body

Woodland (verified by survey)

Wintering and passage birds - protection status:

Species listed on Annex I of the Birds Directive

Species listed on Schedule 1 of the Wildlife and Countryside Act

Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act

Species listed on Birds of Conservation Concern list relevant to assessment – See Volume 5 Appendices

Other notable species relevant to assessment - see Volume 5 Appendices

Wintering and passage birds - survey extent

For full legend please refer to EC-09 - Legend page

Map Number

EC-09-085

Map Name

Wintering and Passage Birds – Protected and Notable Species

Community Forum Area CFA16:
Ladbroke and Southam

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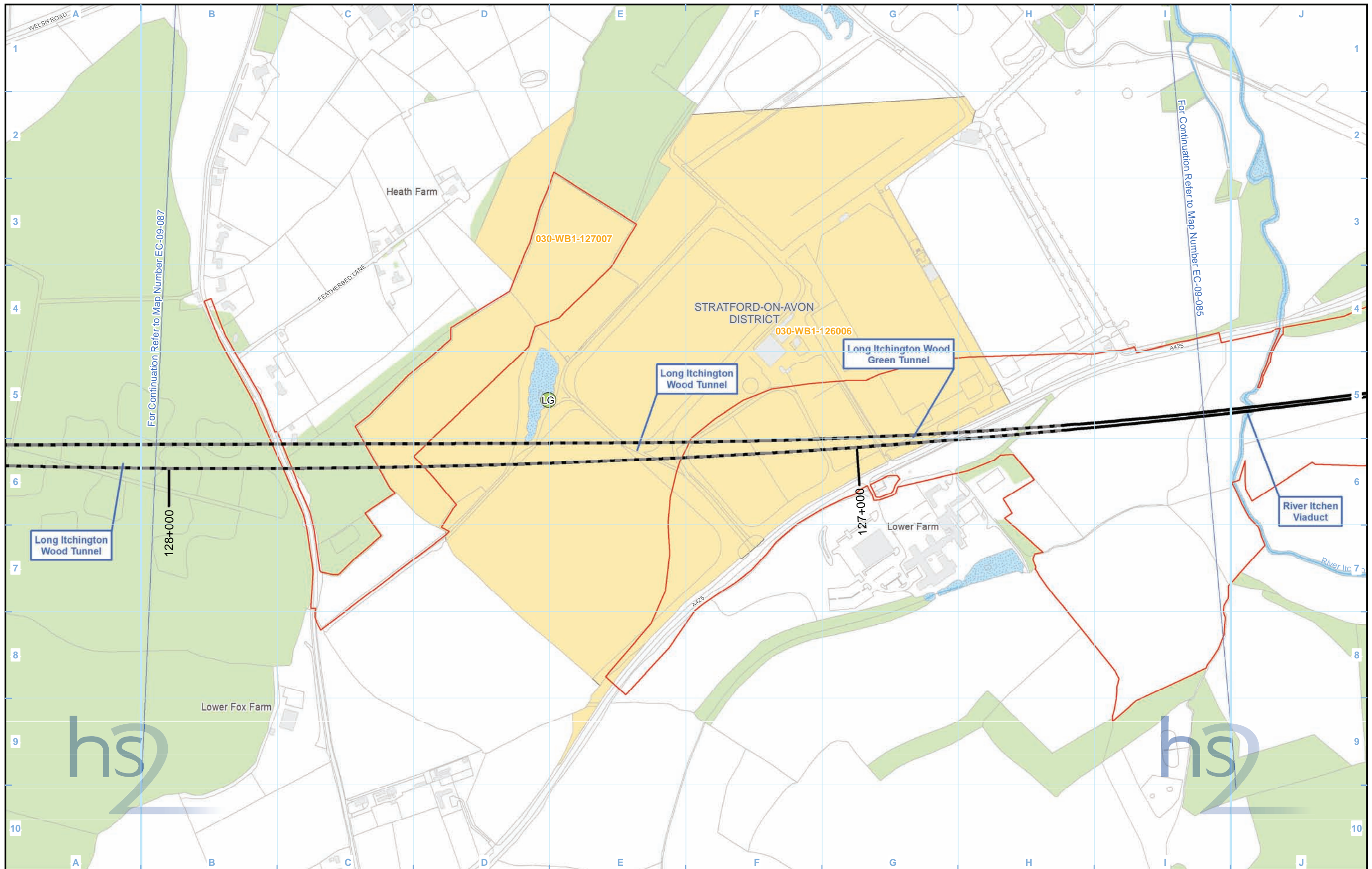
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0 50 100 150 200
Metres

Date: 25/10/13



Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community forum boundary District/Borough boundary		Watercourse Water body Woodland (verified by survey)	Wintering and passage birds - protection status: Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act Species listed on Birds of Conservation Concern list relevant to assessment - See Volume 5 Appendices Other notable species relevant to assessment - see Volume 5 Appendices	Wintering and passage birds - survey extent For full legend please refer to EC-09 - Legend page	Map Number EC-09-086	Map Name Wintering and Passage Birds – Protected and Notable Species	Community Forum Area CFA16: Ladbroke and Southam	Scale at A3: 1:5,000 0 50 100 150 200 Metres	Date: 25/10/13
Map Name Wintering and Passage Birds – Protected and Notable Species		Map Number EC-09-086		Map Name Wintering and Passage Birds – Protected and Notable Species						

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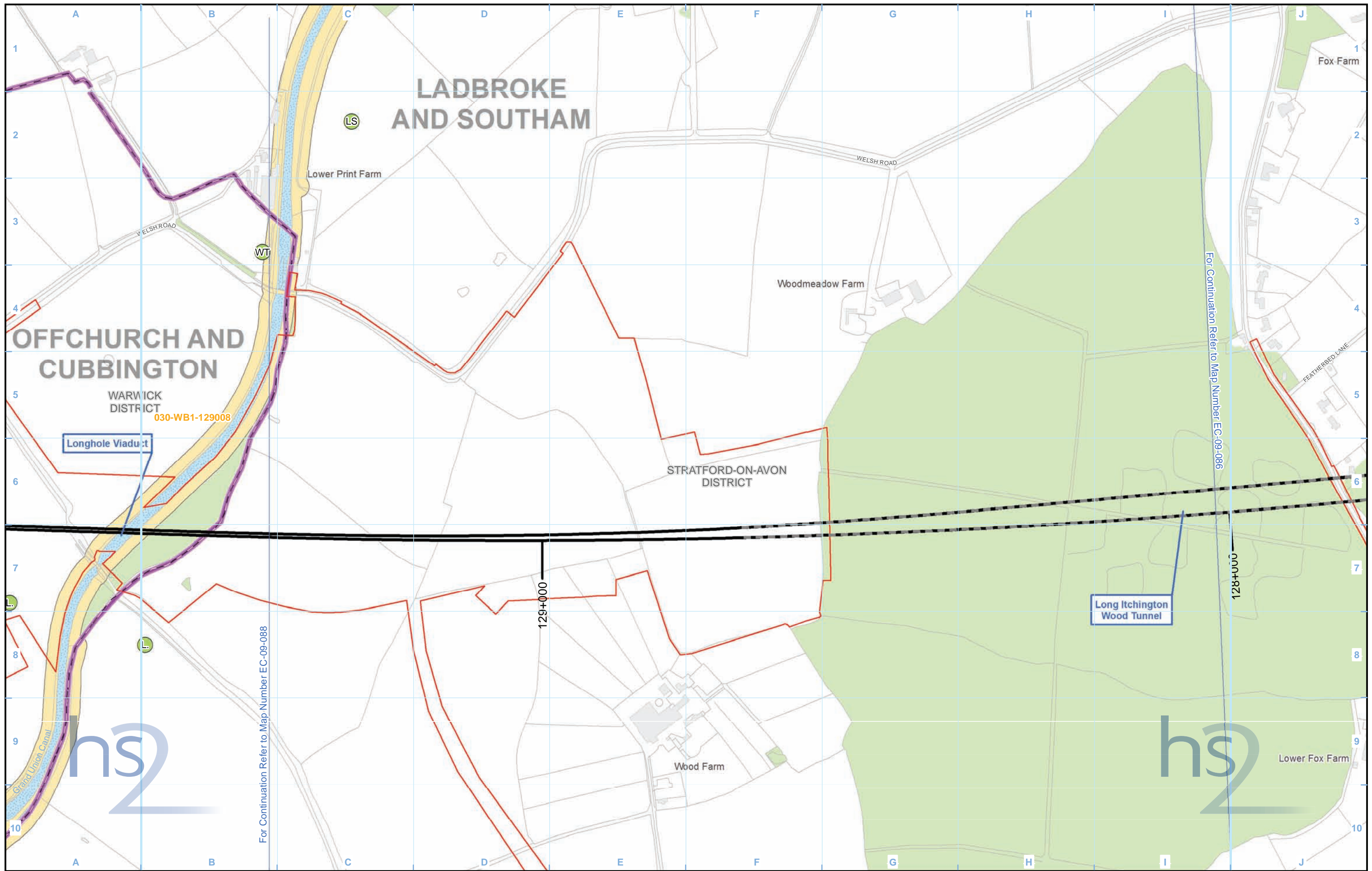
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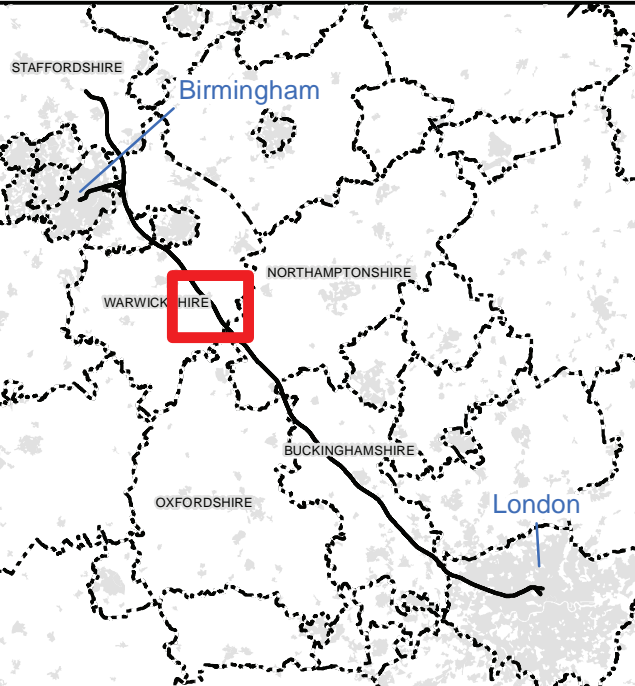
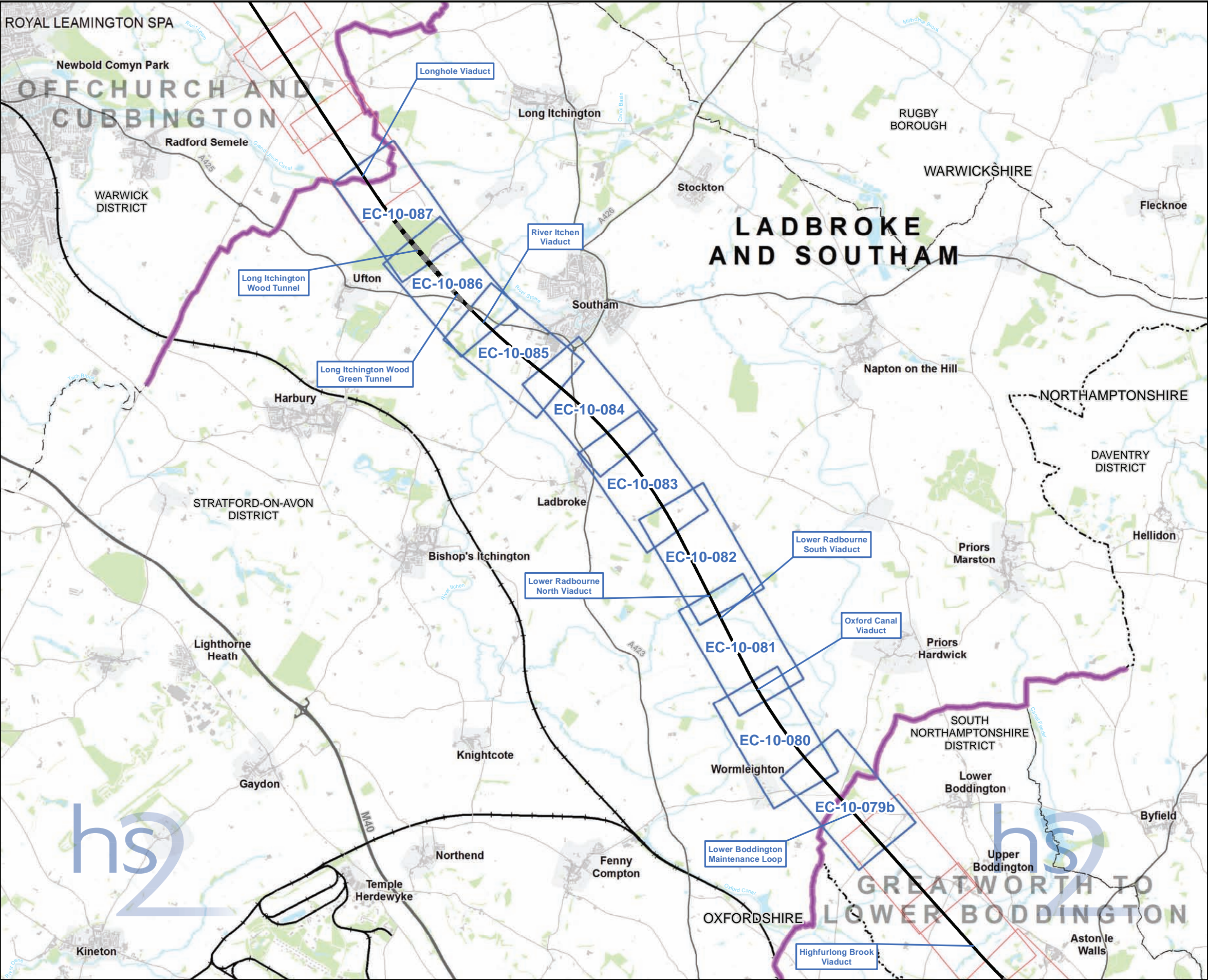
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Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community forum boundary District/Borough boundary	Watercourse Water body Woodland (verified by survey)	Wintering and passage birds - protection status: Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act Species listed on Birds of Conservation Concern list relevant to assessment - See Volume 5 Appendices Other notable species relevant to assessment - see Volume 5 Appendices	Wintering and passage birds - survey extent For full legend please refer to EC-09 - Legend page
Map Number EC-09-087 Map Name Wintering and Passage Birds – Protected and Notable Species Community Forum Area CFA16: Ladbroke and Southam				
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LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

EC-10 – Phase 2 Habitat Survey




Map Series Information:

This map series shows the extent of detailed habitat surveys undertaken to inform the Environmental Statement. The map shows the location of hedgerows that qualify as 'important hedgerows' under the wildlife and landscape criteria of the Hedgerows Regulations (1997).

Note: Not all data layers in the legend are represented on every map.

- Main Map Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community forum boundary
 - Existing railway station
 - County boundary
 - District/Borough boundary
 - Map sheets included in this community forum
 - Map sheets not included in this community forum

Map Number	EC-10-INDEX-CFA16
Map Name	Index Map of: Phase 2 Habitat Survey
Community Forum Area CFA16: Ladbroke and Southam	




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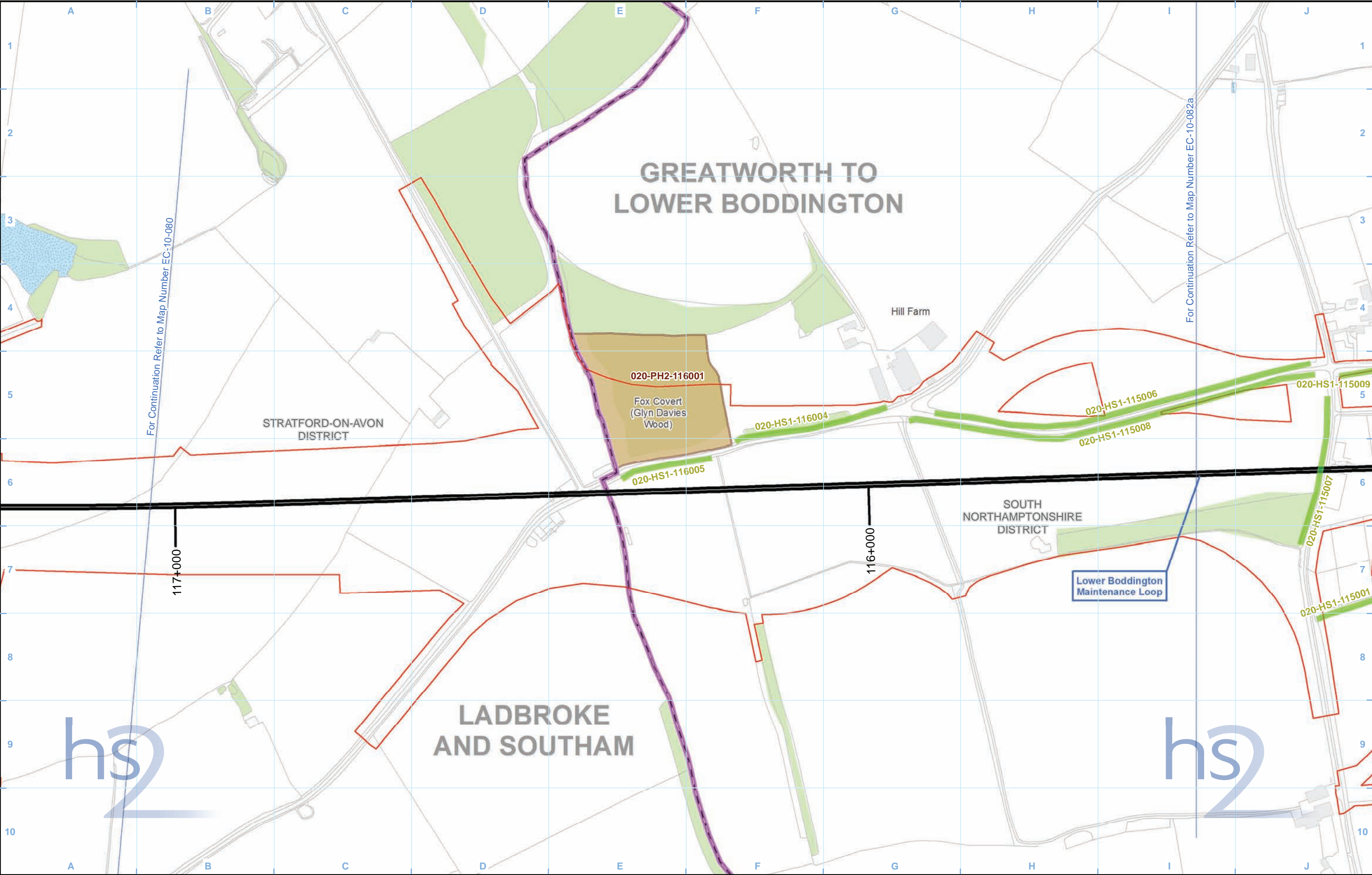


Scale at A3: 1:65,000



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Date: 25/10/13

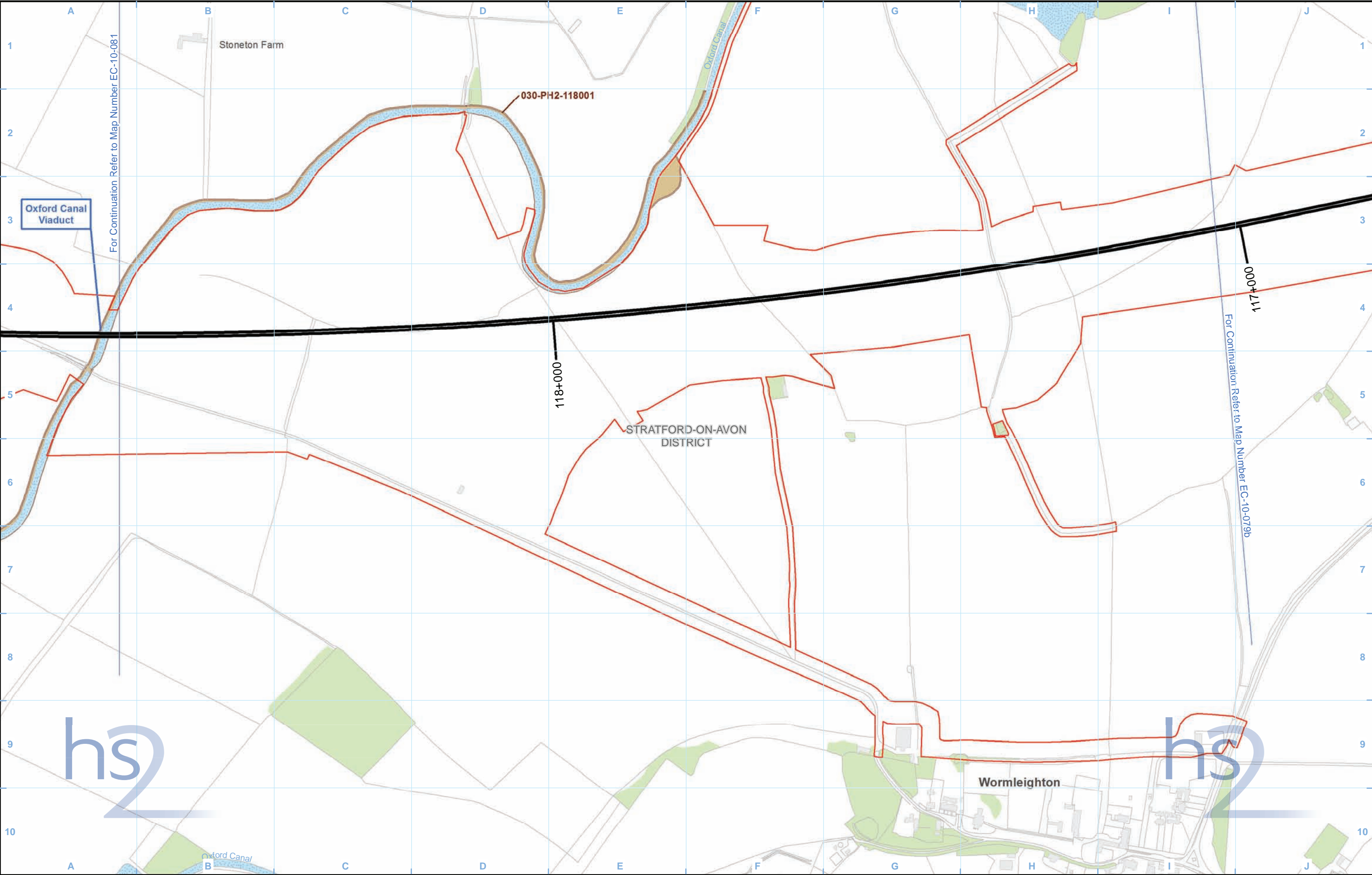


Legend		Map Number EC-10-079b	
Route in tunnel	Watercourse	National Vegetation Classification survey	River corridor survey extent
Route on surface	Water body	Ditch vegetation survey	River habitat survey extent
Depot, station, headhouse or portal building	Woodland (verified by survey)	'Important' hedgerow confirmed by field survey	
Land potentially required during construction		Possible 'Important' hedgerow – no access available for survey	
Community forum boundary			
District/Borough boundary			
		Map Name Phase 2 Habitat Survey	
		Community Forum Area CFA16: Ladbroke and Southam	
		Doc Number: C253-ATK-EV-MAP-030-000405-P06.00	
		Date: 25/10/13	

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Legend

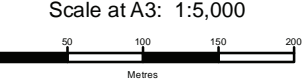
- | | | | |
|---|-------------------------------|--|------------------------------|
| Route in tunnel | Watercourse | National Vegetation Classification survey | River corridor survey extent |
| Route on surface | Water body | Ditch vegetation survey | River habitat survey extent |
| Depot, station, headhouse or portal building | Woodland (verified by survey) | 'Important' hedgerow confirmed by field survey | |
| Land potentially required during construction | | Possible 'Important' hedgerow - no access available for survey | |
| Community forum boundary | | | |
| District/Borough boundary | | | |

Map Number	EC-10-080
Map Name	Phase 2 Habitat Survey
Community Forum Area CFA16: Ladbroke and Southam	

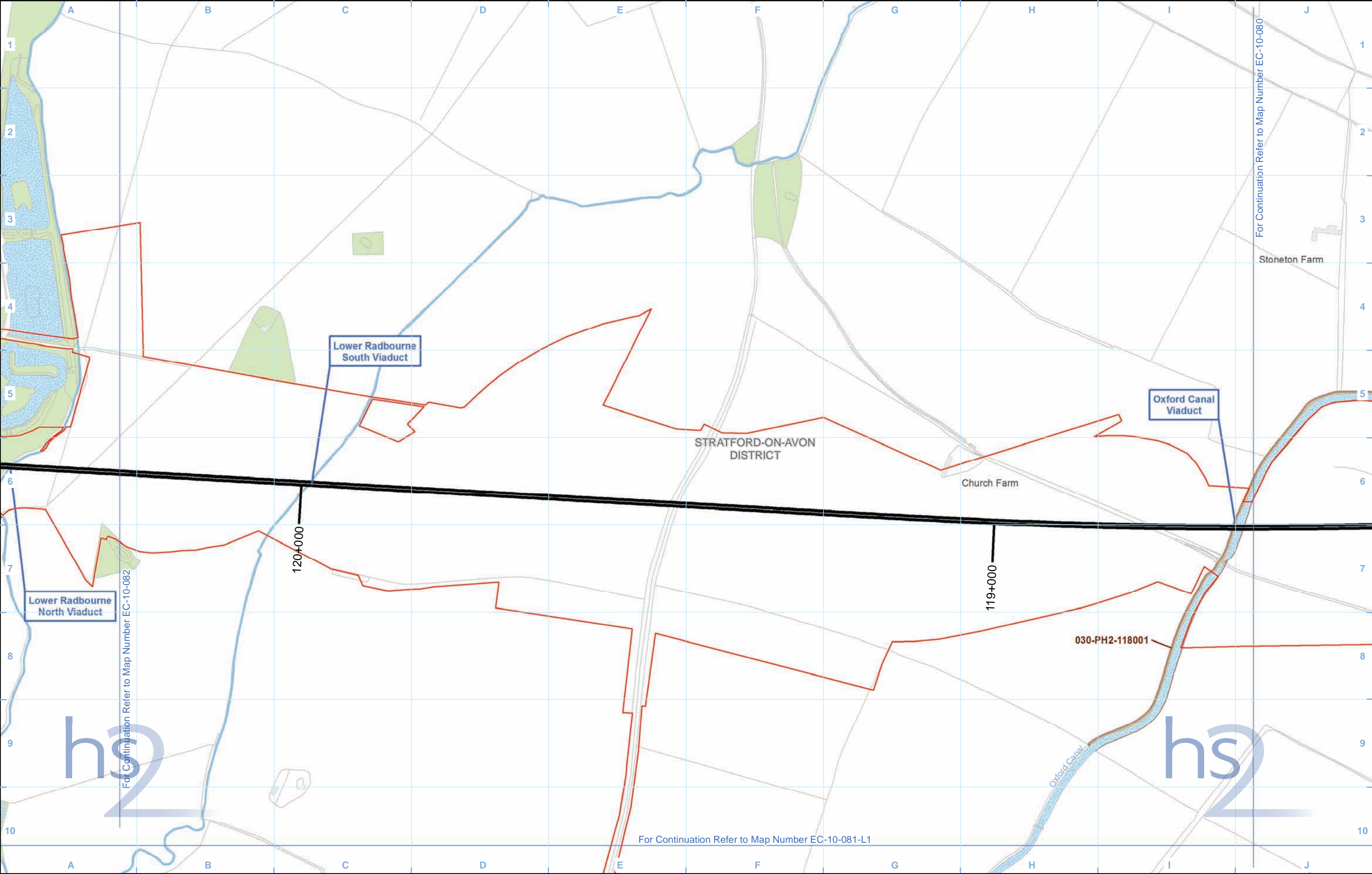


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Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

District/Borough boundary

Watercourse

Water body

Woodland
(verified by survey)

National Vegetation Classification survey

Ditch vegetation survey

'Important' hedgerow confirmed
by field survey

Possible 'Important' hedgerow
– no access available for survey

River corridor survey extent

River habitat survey extent

Map Number

EC-10-081

Map Name

Phase 2 Habitat Survey

Community Forum Area CFA16:
Ladbroke and Southam

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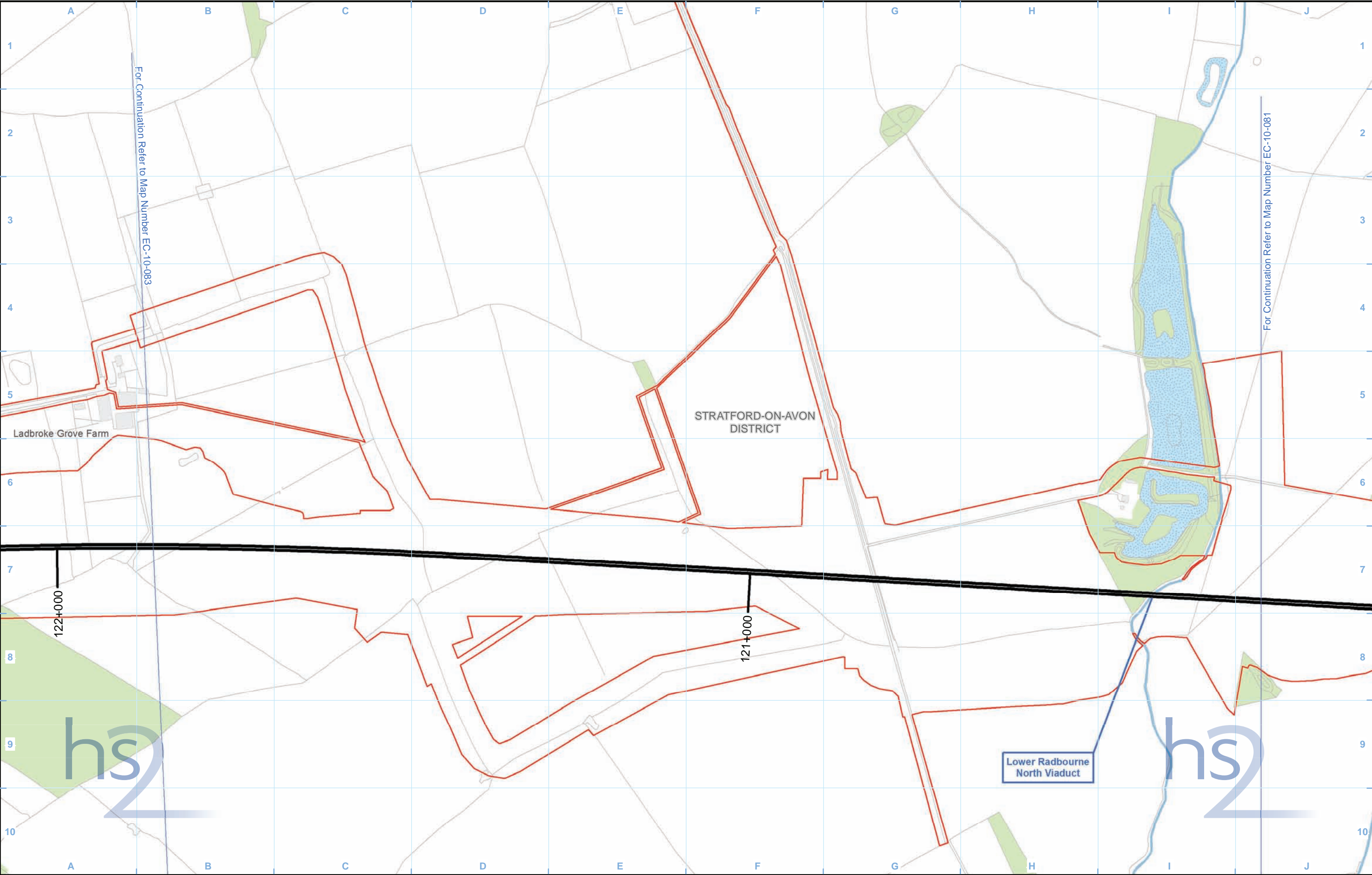
50

100

150

200

Metres



Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

District/Borough boundary

Watercourse

Water body

Woodland
(verified by survey)

National Vegetation Classification survey

Ditch vegetation survey

'Important' hedgerow confirmed
by field survey

Possible 'Important' hedgerow
– no access available for survey

River corridor survey extent

River habitat survey extent

Map Number

EC-10-082

Map Name

Phase 2 Habitat Survey

Community Forum Area CFA16:
Ladbroke and Southam

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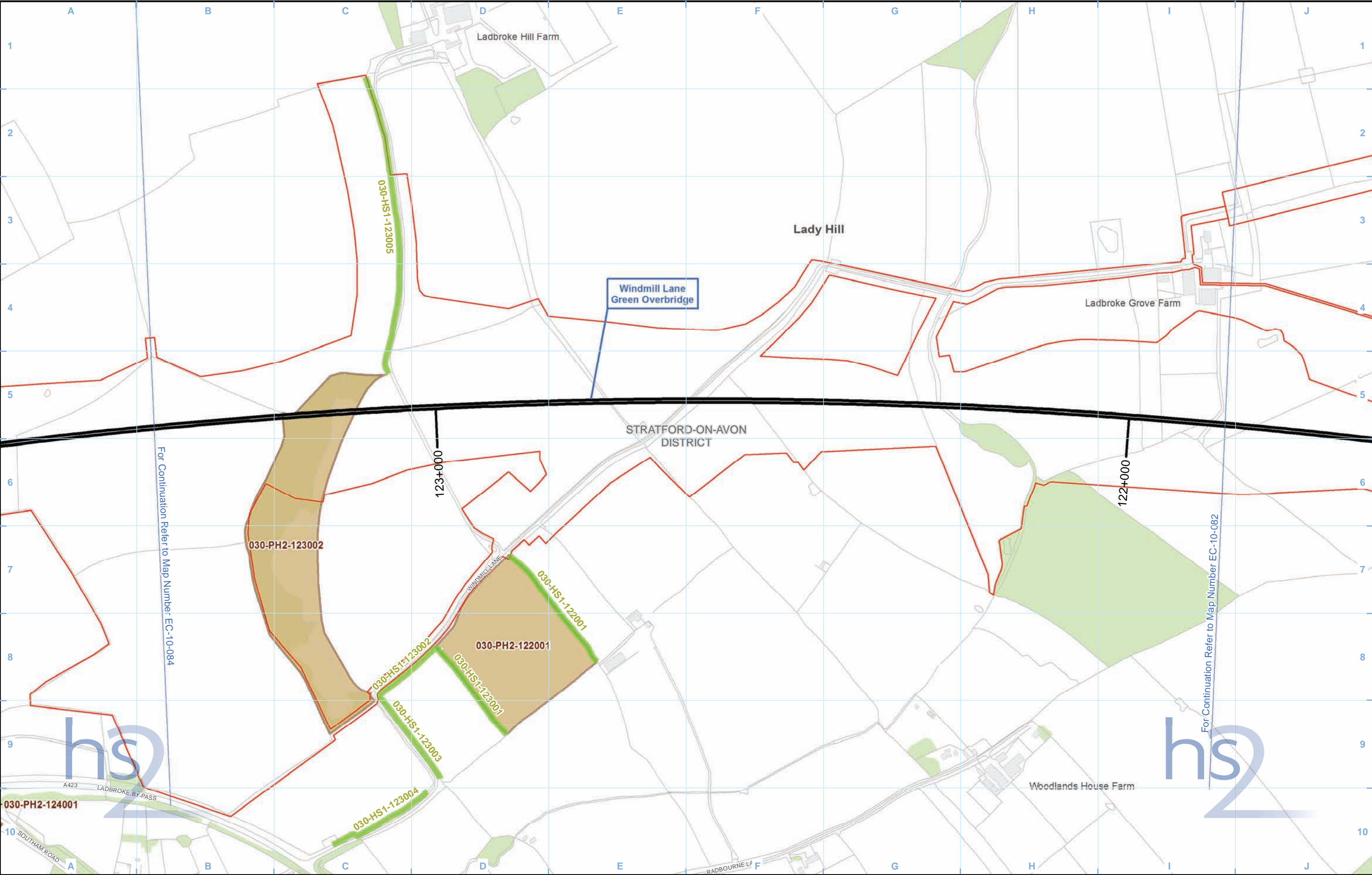
50

100

150

200

Metres



Legend

- | | | | |
|---|-------------------------------|--|------------------------------|
| Route in tunnel | Watercourse | National Vegetation Classification survey | River corridor survey extent |
| Route on surface | Water body | Ditch vegetation survey | River habitat survey extent |
| Depot, station, headhouse or portal building | Woodland (verified by survey) | 'Important' hedgerow confirmed by field survey | |
| Land potentially required during construction | | Possible 'Important' hedgerow - no access available for survey | |
| Community forum boundary | | | |
| District/Borough boundary | | | |

Map Number EC-10-083

Map Name Phase 2 Habitat Survey

Community Forum Area CFA16:
Ladbroke and Southam



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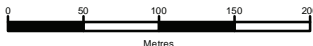


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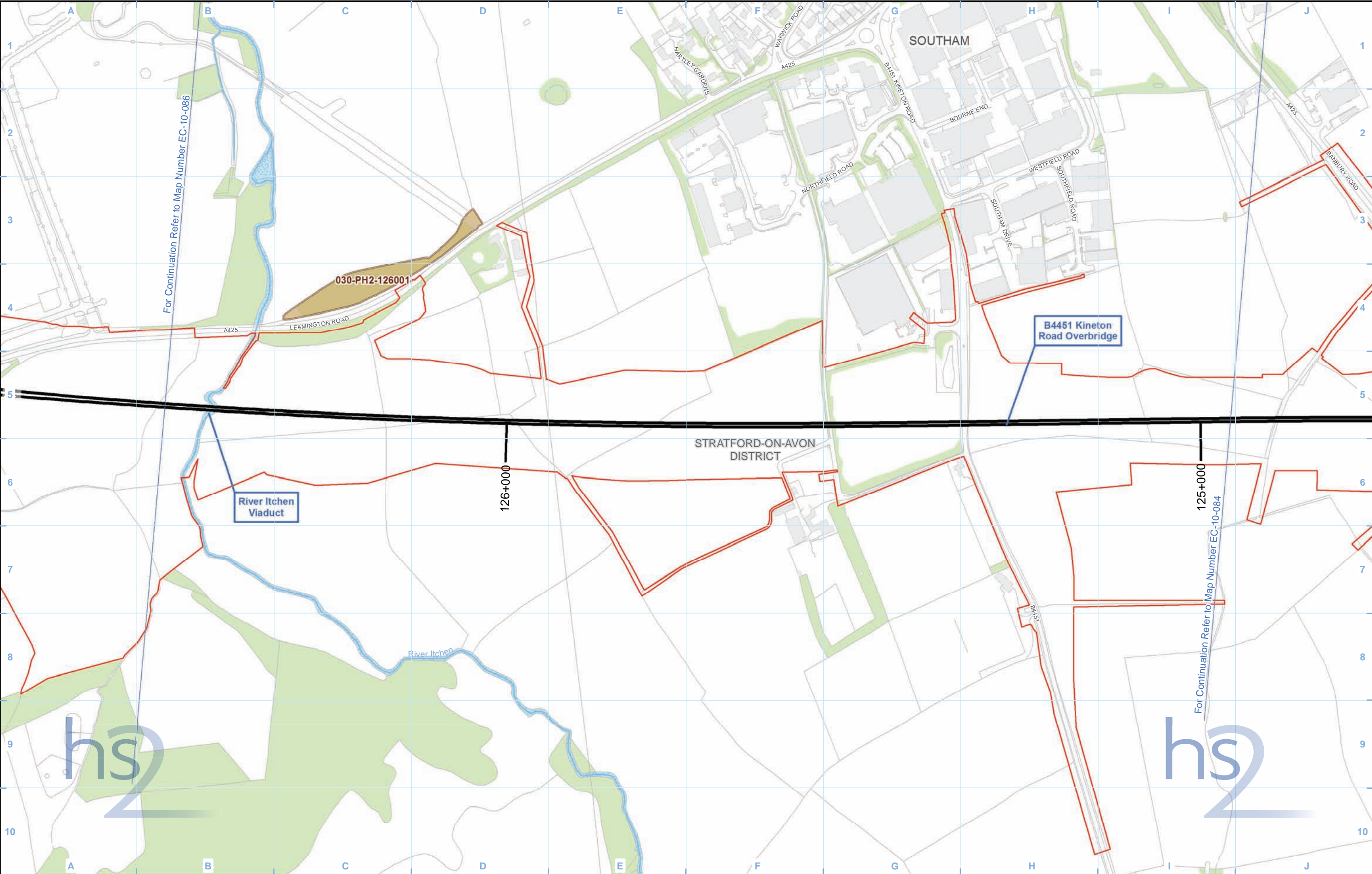
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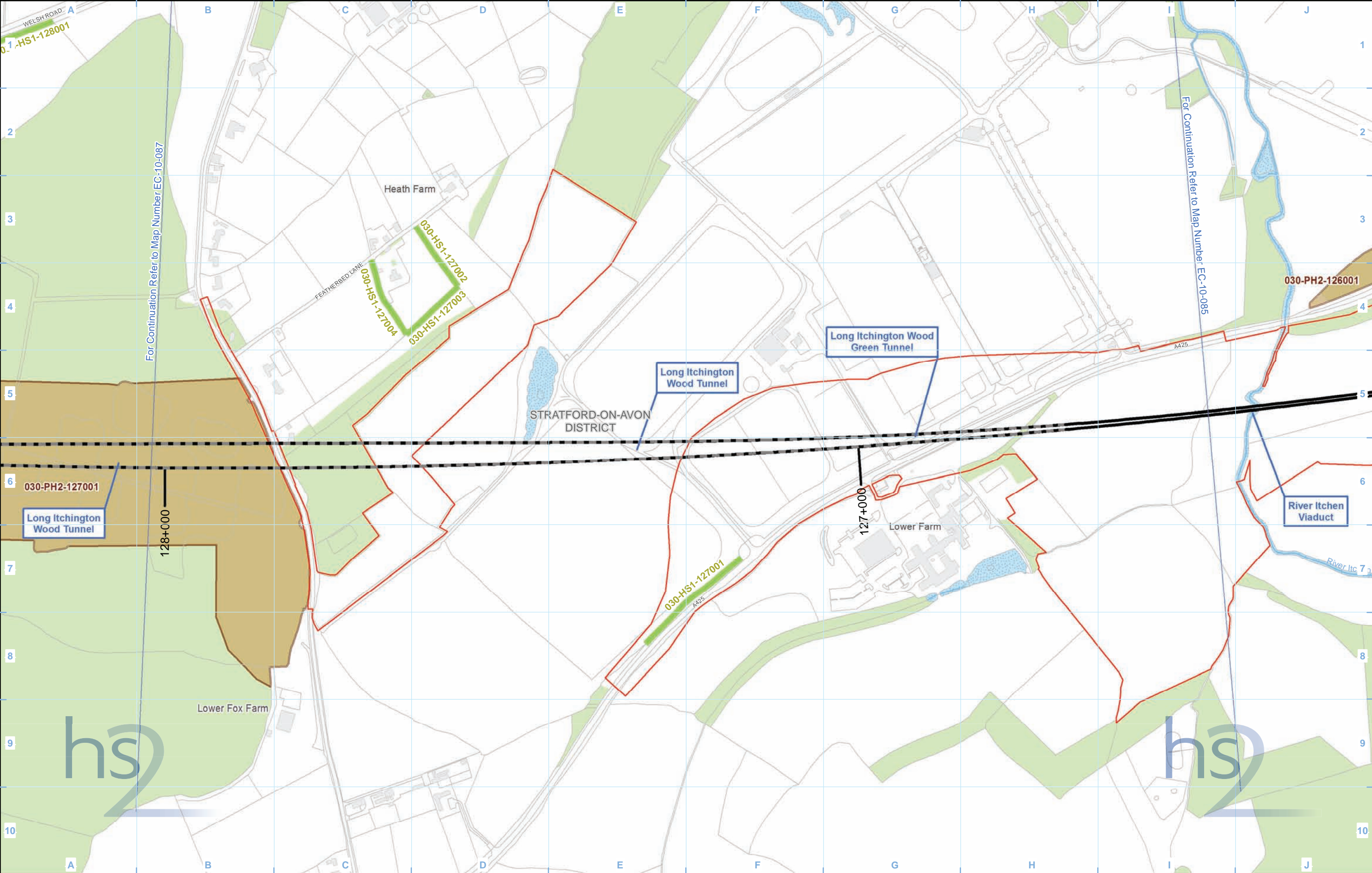
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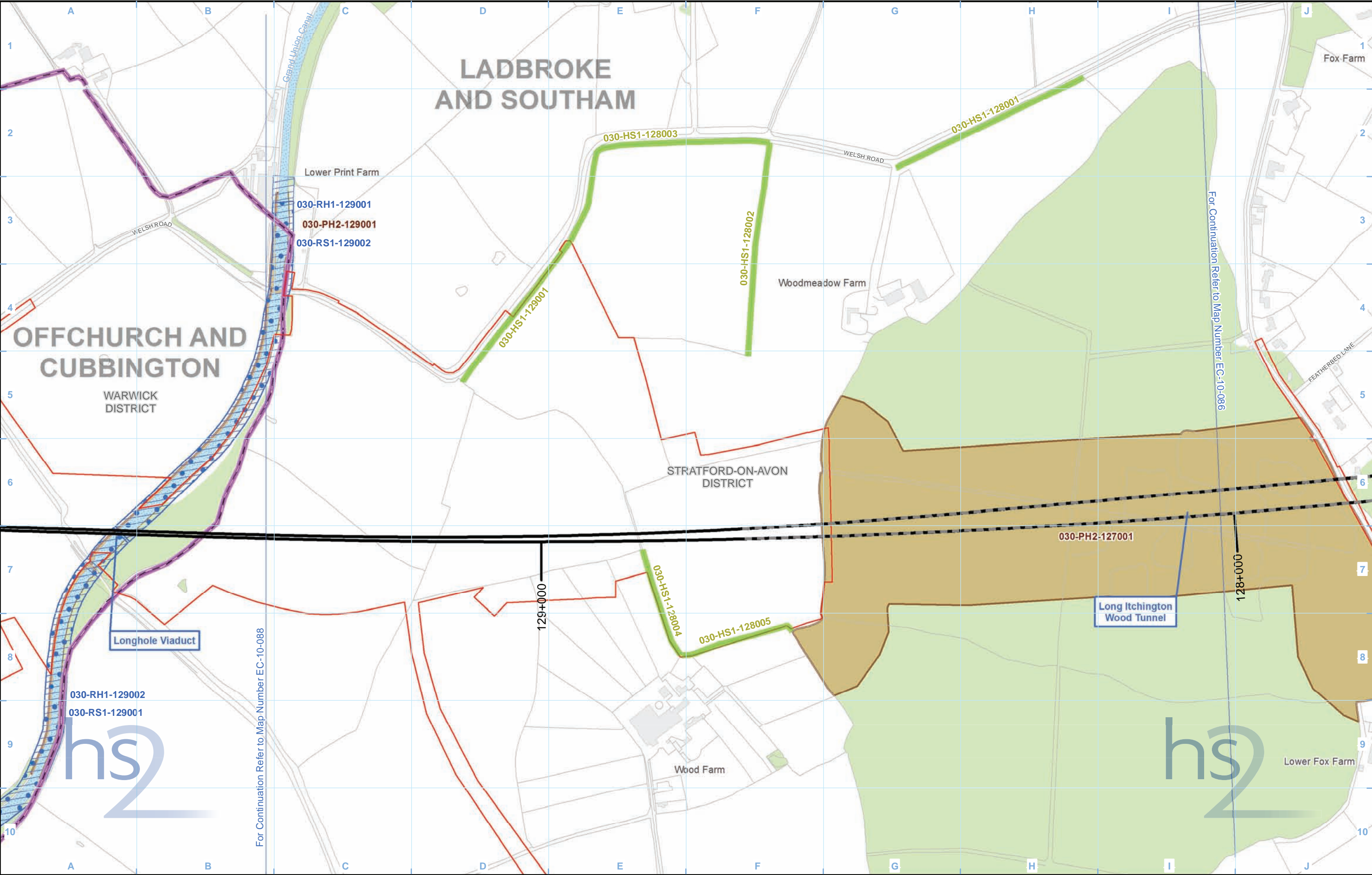
Date: 25/10/13



Legend		Map Number EC-10-085	
Route in tunnel	Watercourse	National Vegetation Classification survey	River corridor survey extent
Route on surface	Water body	Ditch vegetation survey	River habitat survey extent
Depot, station, headhouse or portal building	Woodland (verified by survey)	'Important' hedgerow confirmed by field survey	
Land potentially required during construction		Possible 'Important' hedgerow – no access available for survey	
Community forum boundary			
District/Borough boundary			
		Map Name Phase 2 Habitat Survey	
		Community Forum Area CFA16: Ladbroke and Southam	
		Doc Number: C253-ATK-EV-MAP-030-000411-P06.00	
		Date: 25/10/13	



Legend		Map Number EC-10-086	
Route in tunnel	Watercourse	National Vegetation Classification survey	River corridor survey extent
Route on surface	Water body	Ditch vegetation survey	River habitat survey extent
Depot, station, headhouse or portal building	Woodland (verified by survey)	'Important' hedgerow confirmed by field survey	
Land potentially required during construction		Possible 'Important' hedgerow – no access available for survey	
Community forum boundary			
District/Borough boundary			
		Map Name Phase 2 Habitat Survey	
		Community Forum Area CFA16: Ladbroke and Southam	
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		Scale at A3: 1:5,000 0 50 100 150 200 Metres Date: 25/10/13	



Legend		Map Number EC-10-087	
Route in tunnel	Watercourse	National Vegetation Classification survey	River corridor survey extent
Route on surface	Water body	Ditch vegetation survey	River habitat survey extent
Depot, station, headhouse or portal building	Woodland (verified by survey)	'Important' hedgerow confirmed by field survey	
Land potentially required during construction		Possible 'Important' hedgerow – no access available for survey	
Community forum boundary			
District/Borough boundary			
		Map Name Phase 2 Habitat Survey	
		Community Forum Area CFA16: Ladbroke and Southam	
		Doc Number: C253-ATK-EV-MAP-030-000413-P06.00	
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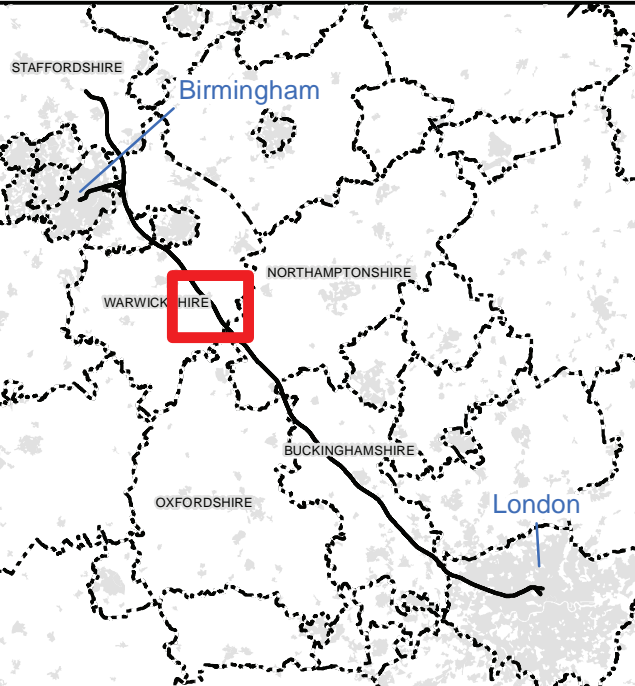
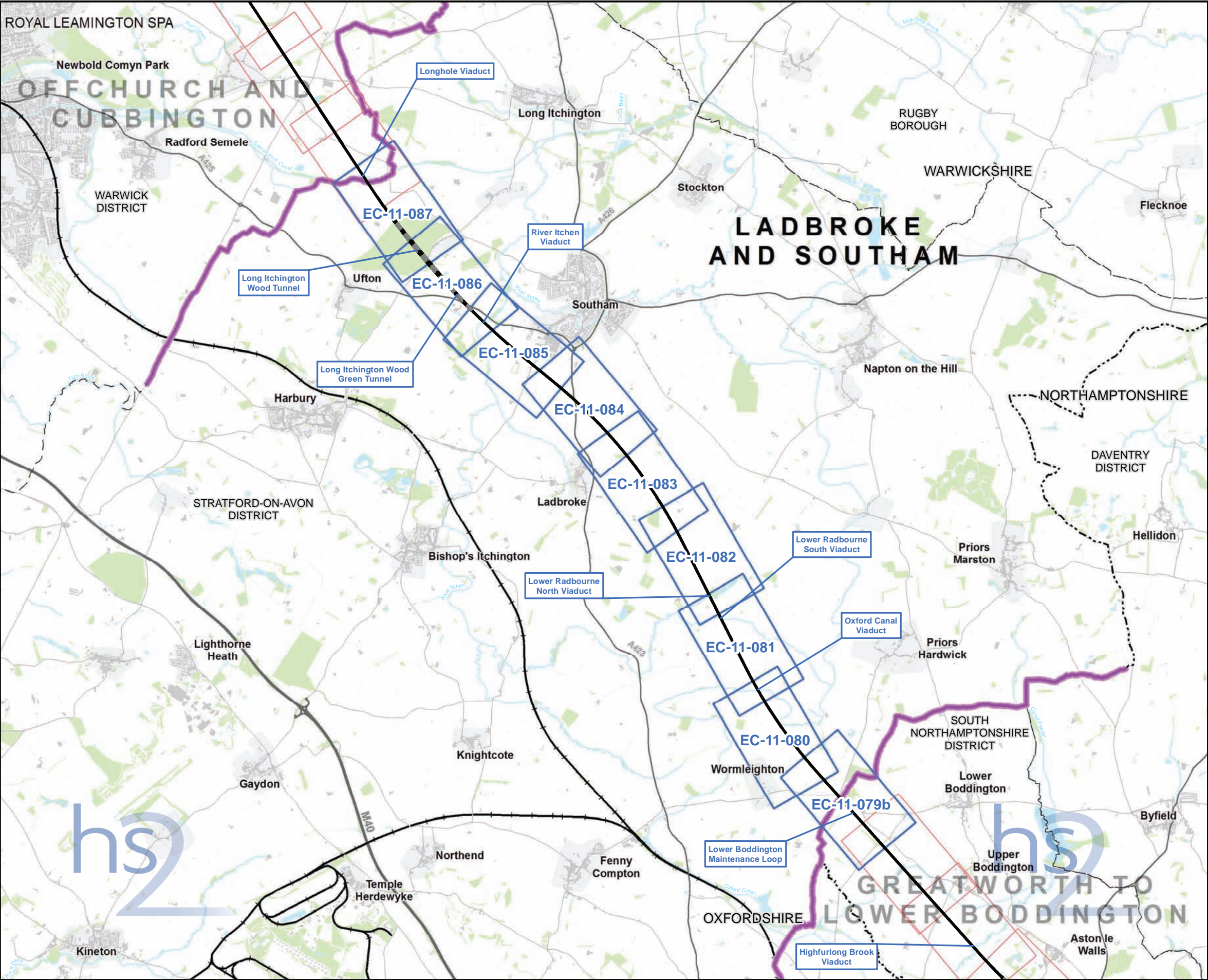
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LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT


EC-11 – Other Protected and Notable Species (1)




Map Series Information:

This map series shows the extent of protected species surveys conducted to inform the Environmental Statement.


Main Map Legend <ul style="list-style-type: none">Route in tunnelRoute on surfaceDepot, station, headhouse or portal buildingCommunity forum boundaryExisting railway stationCounty boundaryDistrict/Borough boundary		<ul style="list-style-type: none">Map sheets included in this community forumMap sheets not included in this community forum
Map Number		EC-11-INDEX-CFA16
Map Name		Index Map of: Other Protected and Notable Species (1)
		Community Forum Area CFA16: Ladbroke and Southam



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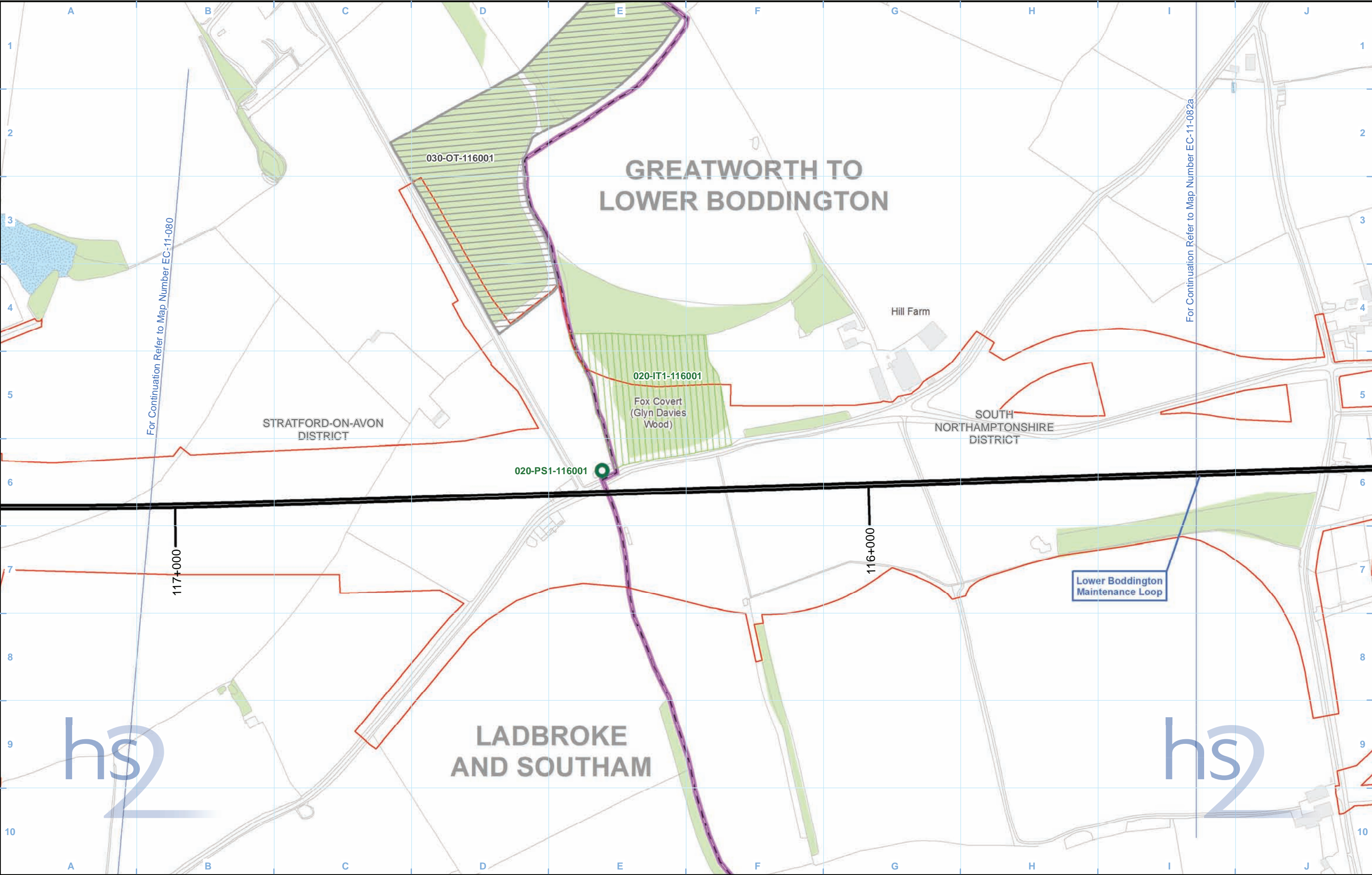
0 650 1,300 1,950 2,600 Metres

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Doc Number: C253-ATK-EV-MAP-030-001235-P06.00

Date: 25/10/13



Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

District/Borough boundary

Watercourse

Water body

Woodland (verified by survey)

Otter:

Active otter holt

Potential otter holt

Otter terrestrial habitat

White Clawed Crayfish:

Manual search and/or trapping conducted and presence confirmed

Manual search and/or trapping conducted and assumed absent

Site identified as potentially suitable but no access available

Pond survey:

Pond survey – national pond survey

Pond survey – PSYM

Pond survey – rapid assessment method

Fish:

Fish survey location

Terrestrial invertebrate:

Terrestrial invertebrate survey extent

Map Number

EC-11-079b

Map Name

Other Protected and Notable Species (1)

Community Forum Area CFA16:
Ladbroke and Southam

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50

100

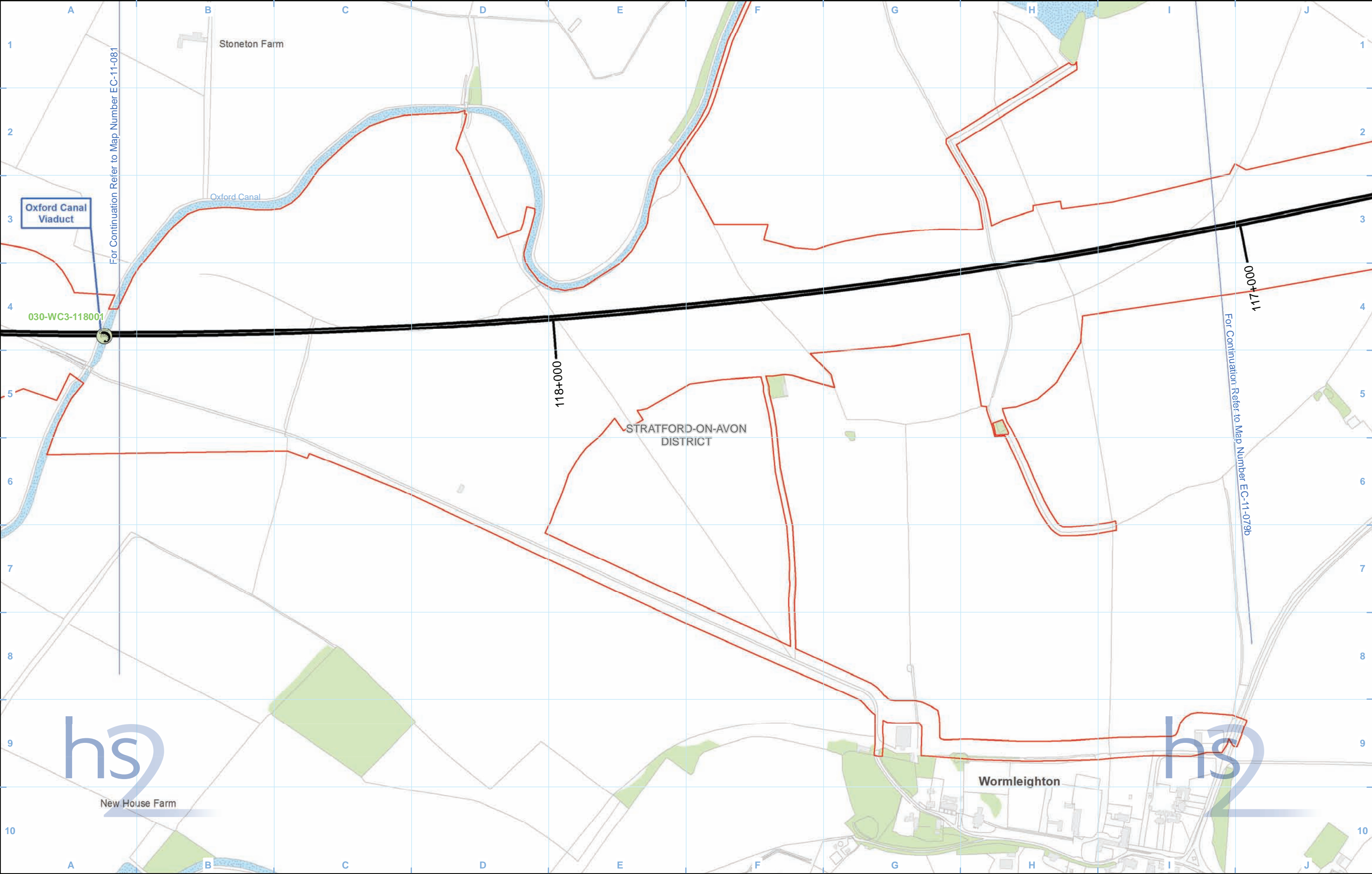
150

200

Metres

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Date: 25/10/13



Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

District/Borough boundary

Watercourse

Water body

Woodland (verified by survey)

Otter:

Active otter holt

Potential otter holt

Otter terrestrial habitat

White Clawed Crayfish:

Manual search and/or trapping conducted and presence confirmed

Manual search and/or trapping conducted and assumed absent

Site identified as potentially suitable but no access available

Pond survey:

Pond survey – national pond survey

Pond survey – PSYM

Pond survey – rapid assessment method

Fish:

Fish survey location

Terrestrial invertebrate:

Terrestrial invertebrate survey extent

Map Number

EC-11-080

Map Name

Other Protected and Notable Species (1)

Community Forum Area CFA16:
Ladbroke and Southam

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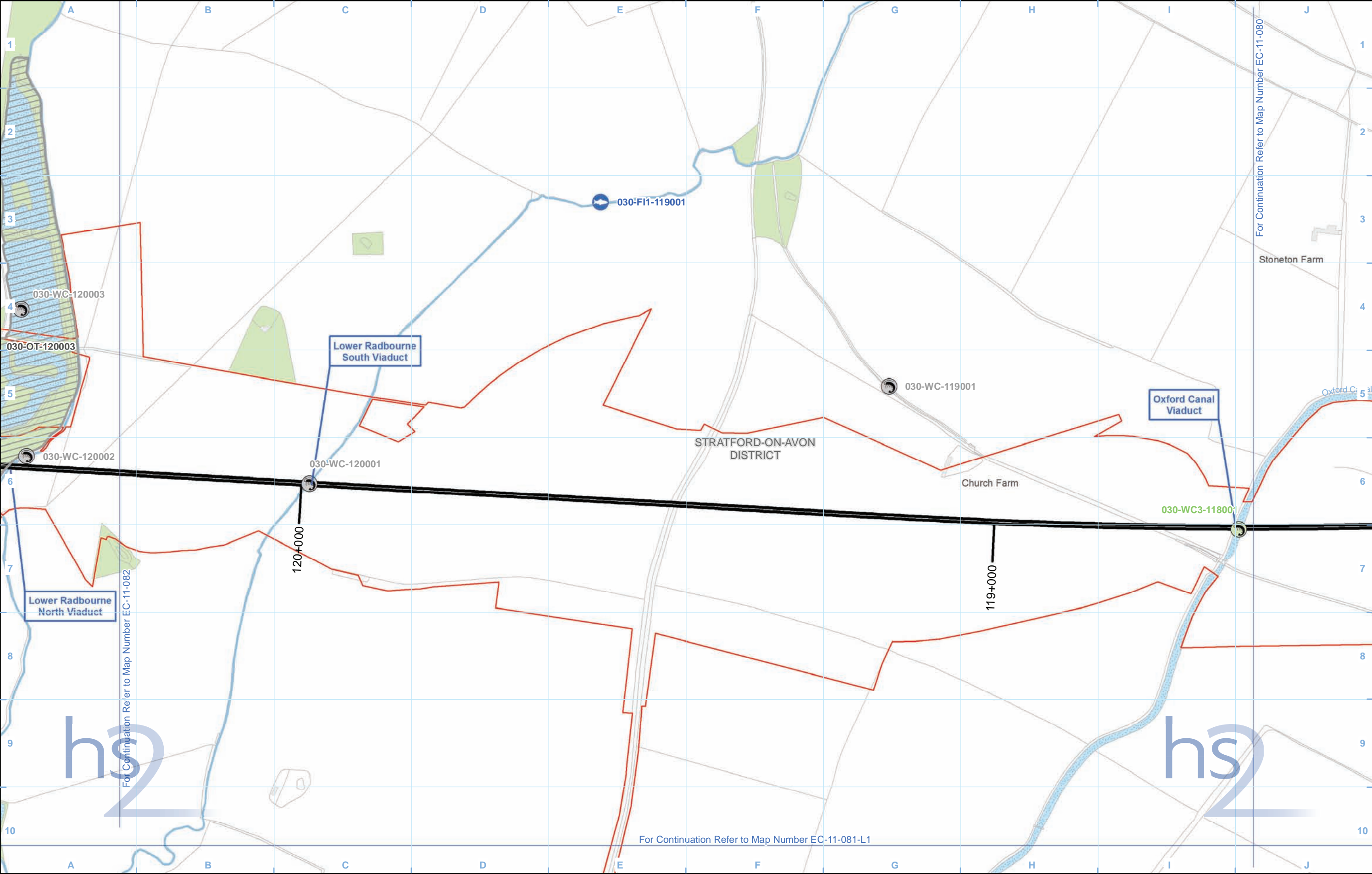
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0 50 100 150 200
Metres



Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

District/Borough boundary

Watercourse

Water body

Woodland (verified by survey)

Otter:

Active otter holt

Potential otter holt

Otter terrestrial habitat

White Clawed Crayfish:

Manual search and/or trapping conducted and presence confirmed

Manual search and/or trapping conducted and assumed absent

Site identified as potentially suitable but no access available

Pond survey:

Pond survey – national pond survey

Pond survey – PSYM

Pond survey – rapid assessment method

Fish:

Fish survey location

Terrestrial invertebrate:

Terrestrial invertebrate survey extent

Map Number

EC-11-081

Map Name

Other Protected and Notable Species (1)

Community Forum Area CFA16: Ladbroke and Southam

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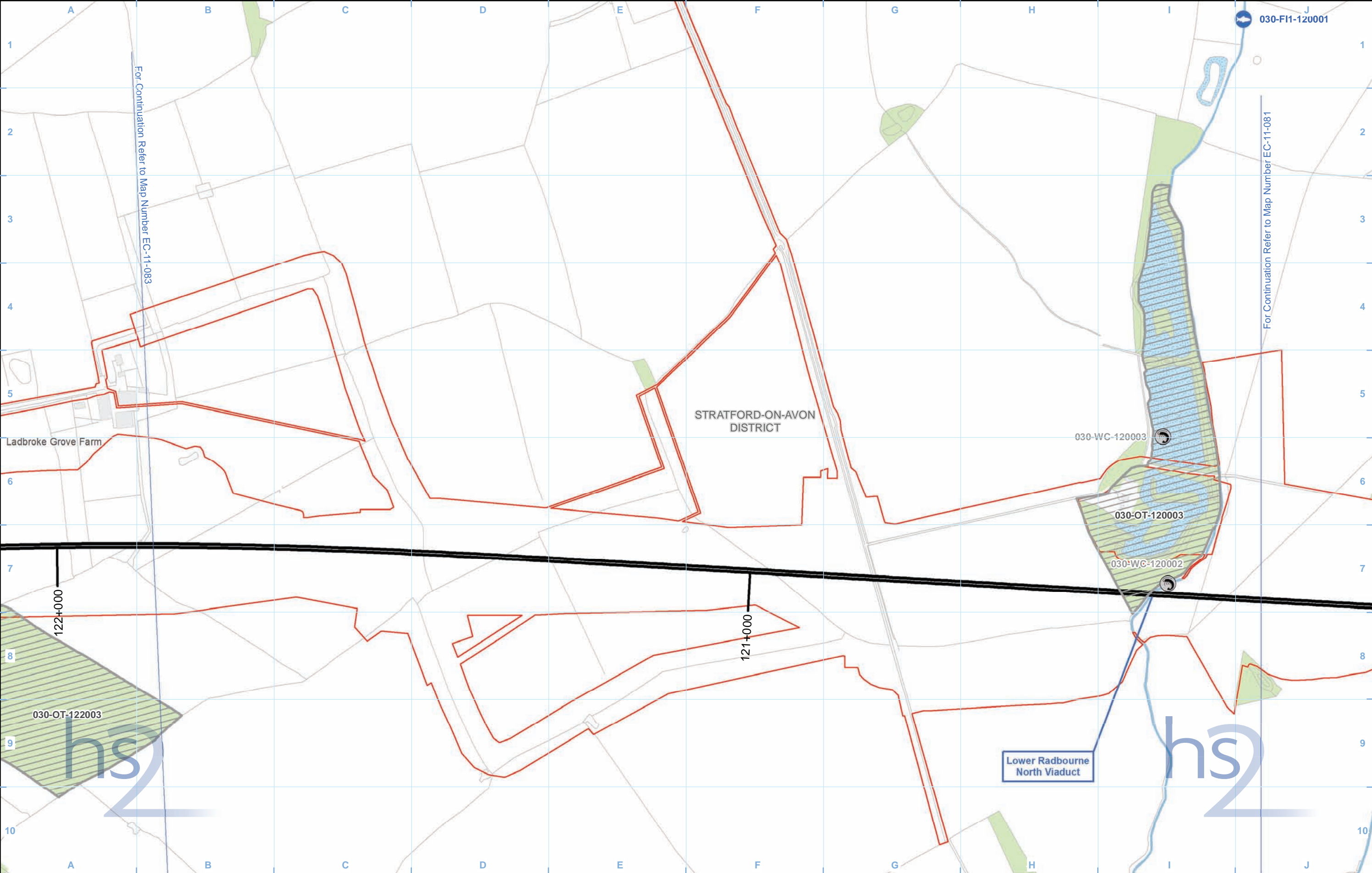
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Doc Number: C253-ATK-EV-MAP-030-000424-P06.00

Scale at A3: 1:5,000

0 50 100 150 200
Metres

Date: 25/10/13



Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

District/Borough boundary

Watercourse

Water body

Woodland (verified by survey)

Otter:

Active otter holt

Potential otter holt

Otter terrestrial habitat

White Clawed Crayfish:

Manual search and/or trapping conducted and presence confirmed

Manual search and/or trapping conducted and assumed absent

Site identified as potentially suitable but no access available

Pond survey:

Pond survey – national pond survey

Pond survey – PSYM

Pond survey – rapid assessment method

Fish:

Fish survey location

Terrestrial invertebrate:

Terrestrial invertebrate survey extent

Map Number: EC-11-082

Map Name: Other Protected and Notable Species (1)

Community Forum Area CFA16: Ladbroke and Southam

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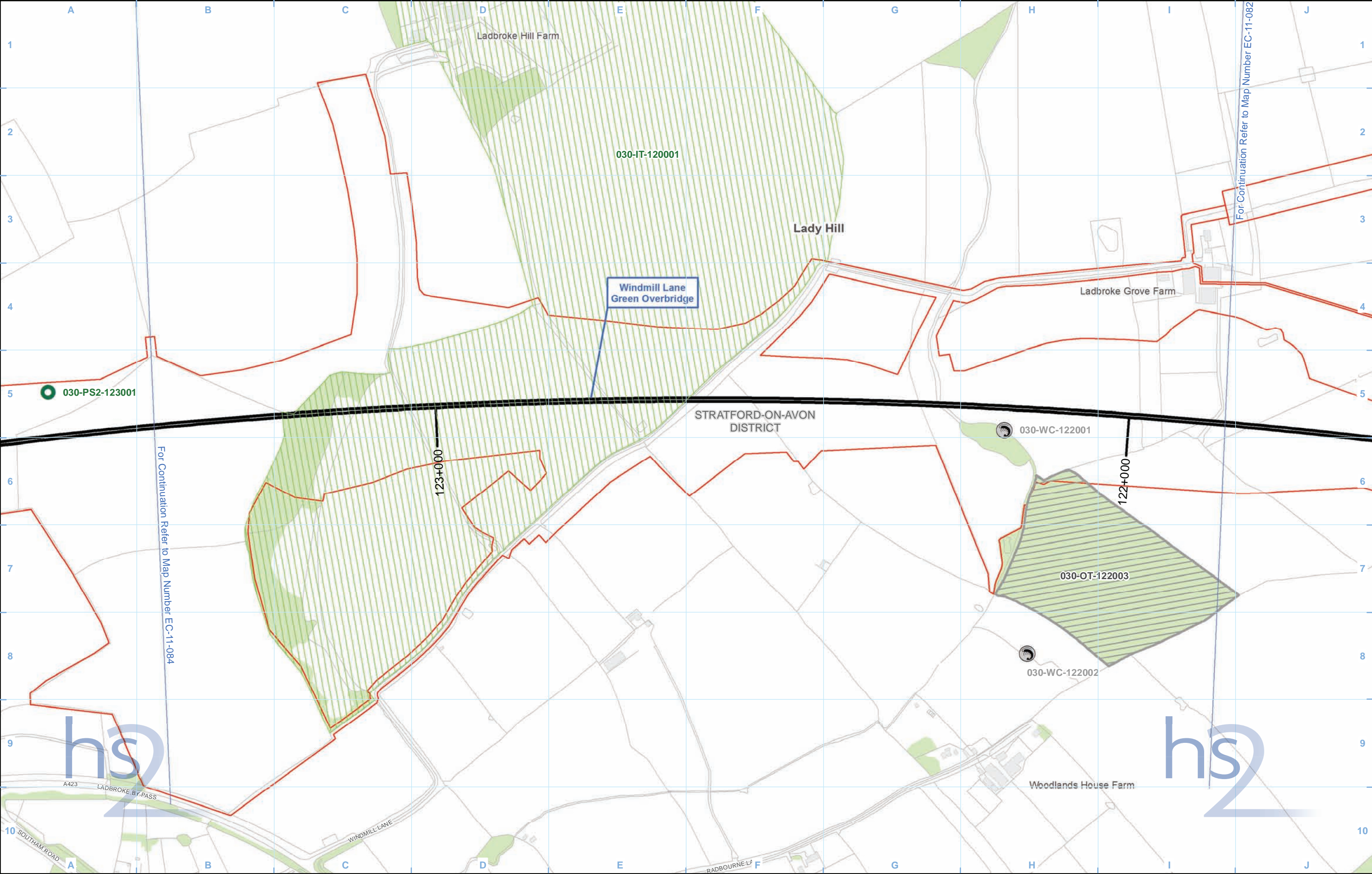
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Doc Number: C253-ATK-EV-MAP-030-000425-P06.00

Date: 25/10/13

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Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

District/Borough boundary

Watercourse

Water body

Woodland (verified by survey)

Otter:

Active otter holt

Potential otter holt

Otter terrestrial habitat

White Clawed Crayfish:

Manual search and/or trapping conducted and presence confirmed

Manual search and/or trapping conducted and assumed absent

Site identified as potentially suitable but no access available

Pond survey:

Pond survey – national pond survey

Pond survey – PSYM

Pond survey – rapid assessment method

Fish:

Fish survey location

Terrestrial invertebrate: survey extent

Map Number

EC-11-083

Map Name

Other Protected and Notable Species (1)

Community Forum Area CFA16:
Ladbroke and Southam

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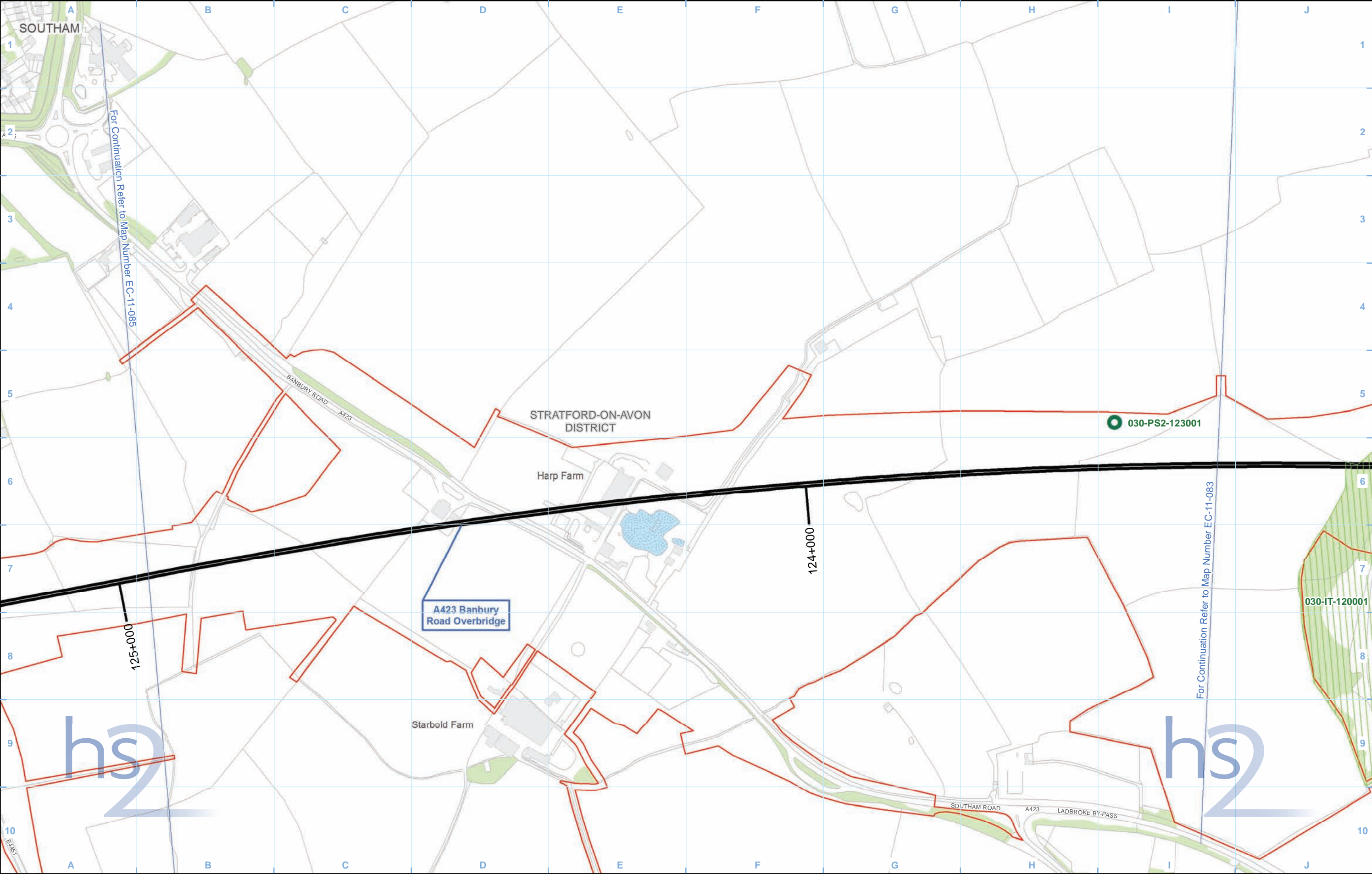
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Doc Number: C253-ATK-EV-MAP-030-000426-P06.00

Scale at A3: 1:5,000

Date: 25/10/13



Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

District/Borough boundary

Watercourse

Water body

Woodland (verified by survey)

Otter:

Active otter holt

Potential otter holt

Otter terrestrial habitat

White Clawed Crayfish:

Manual search and/or trapping conducted and presence confirmed

Manual search and/or trapping conducted and assumed absent

Site identified as potentially suitable but no access available

Pond survey:

Pond survey – national pond survey

Pond survey – PSYM

Pond survey – rapid assessment method

Fish:

Fish survey location

Terrestrial invertebrate:

Terrestrial invertebrate survey extent

Map Number

EC-11-084

Map Name

Other Protected and Notable Species (1)

Community Forum Area CFA16: Ladbroke and Southam

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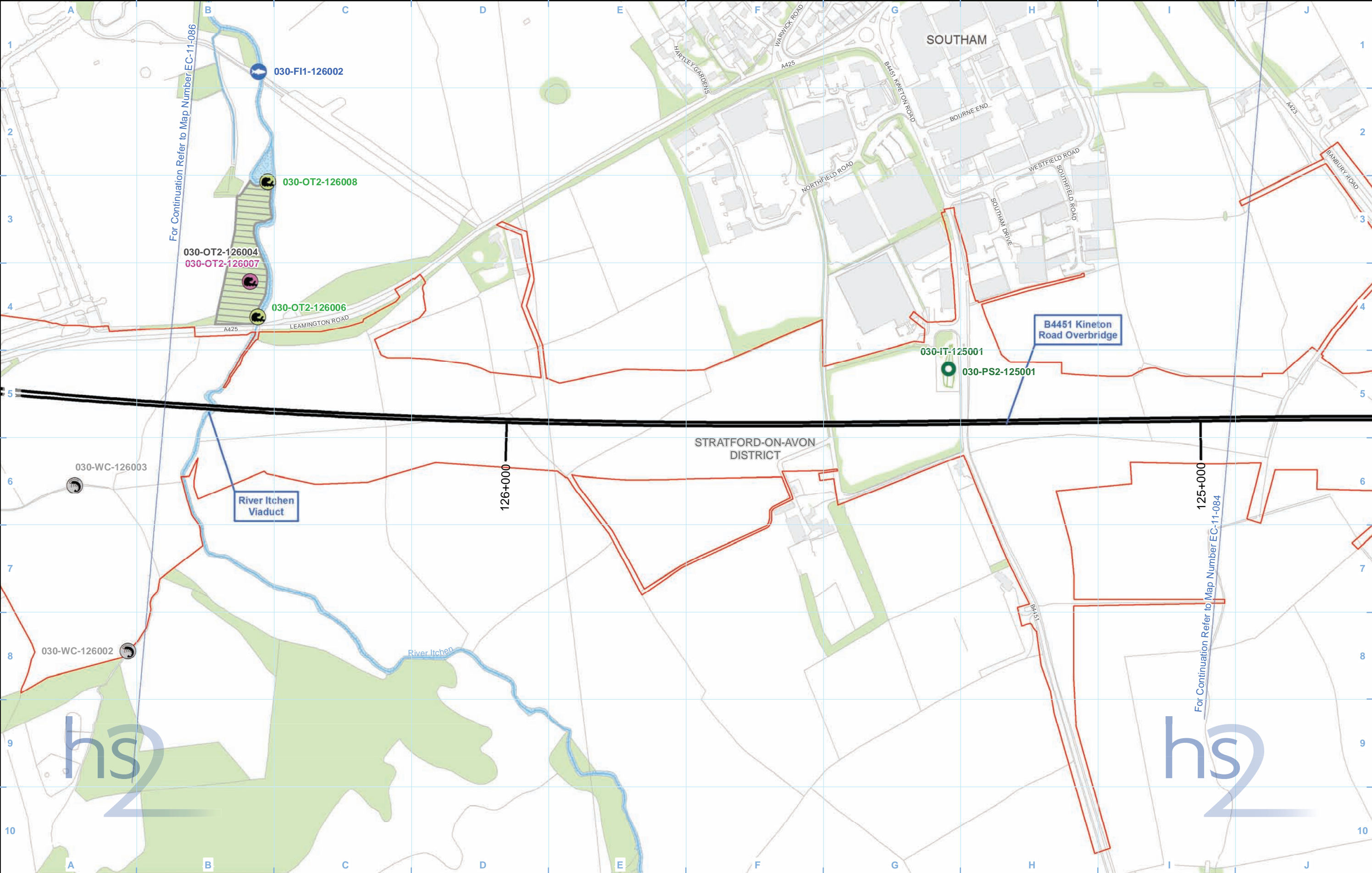
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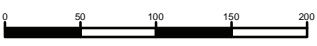
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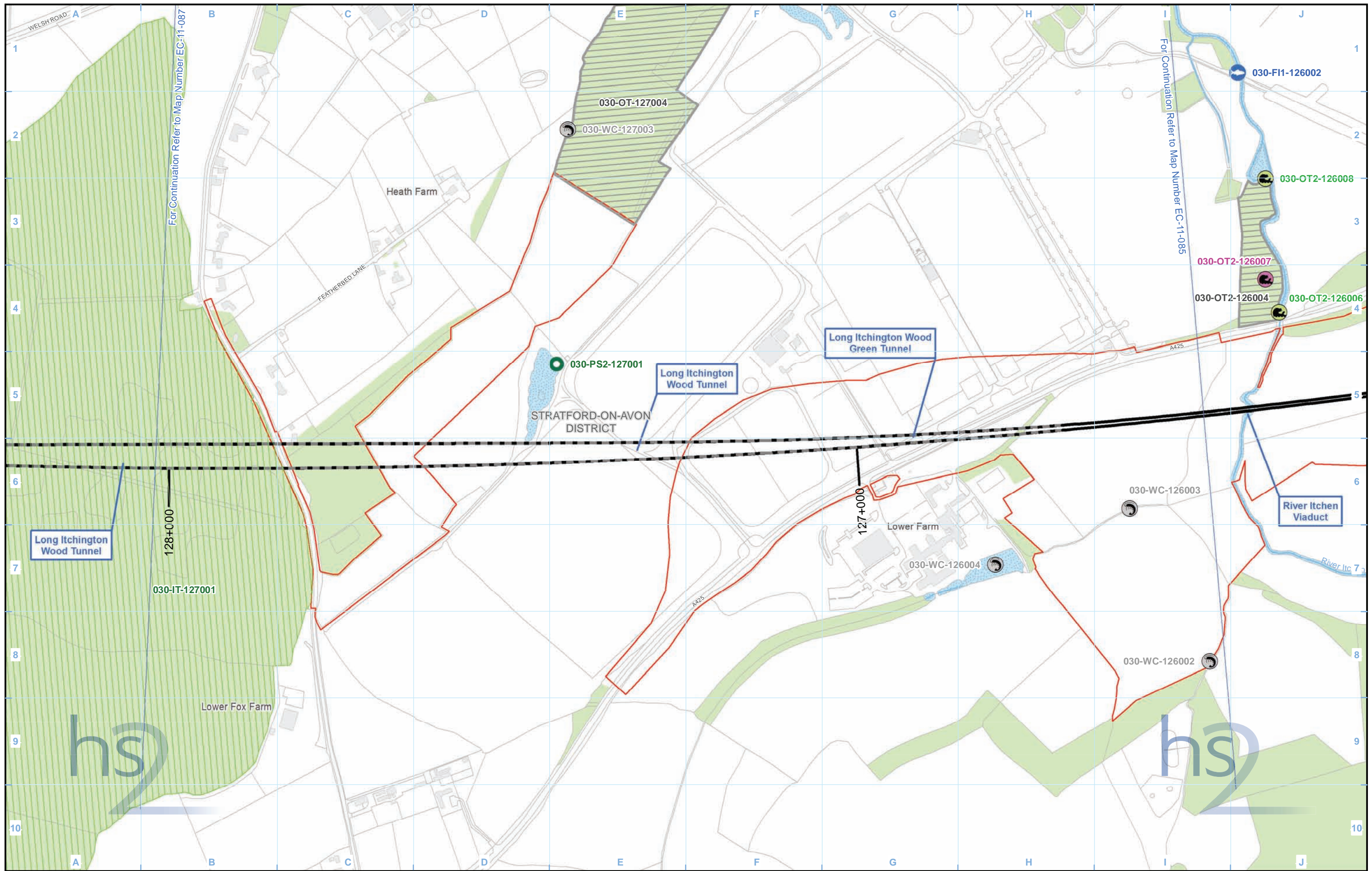



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Route in tunnel	Watercourse	Otter:	White Clawed Crayfish:	
Route on surface	Water body	Active otter holt	Manual search and/or trapping conducted and presence confirmed	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Potential otter holt	Manual search and/or trapping conducted and assumed absent	
Land potentially required during construction		Otter terrestrial habitat	Site identified as potentially suitable but no access available	
Community forum boundary			Pond survey:	
District/Borough boundary			Pond survey – national pond survey	
			Pond survey – PSYM	
			Pond survey – rapid assessment method	
			Fish:	
			Fish survey location	
			Terrestrial invertebrate:	
			Terrestrial invertebrate survey extent	

Map Name Other Protected and Notable Species (1)
Community Forum Area CFA16: Ladbroke and Southam

Scale at A3: 1:5,000






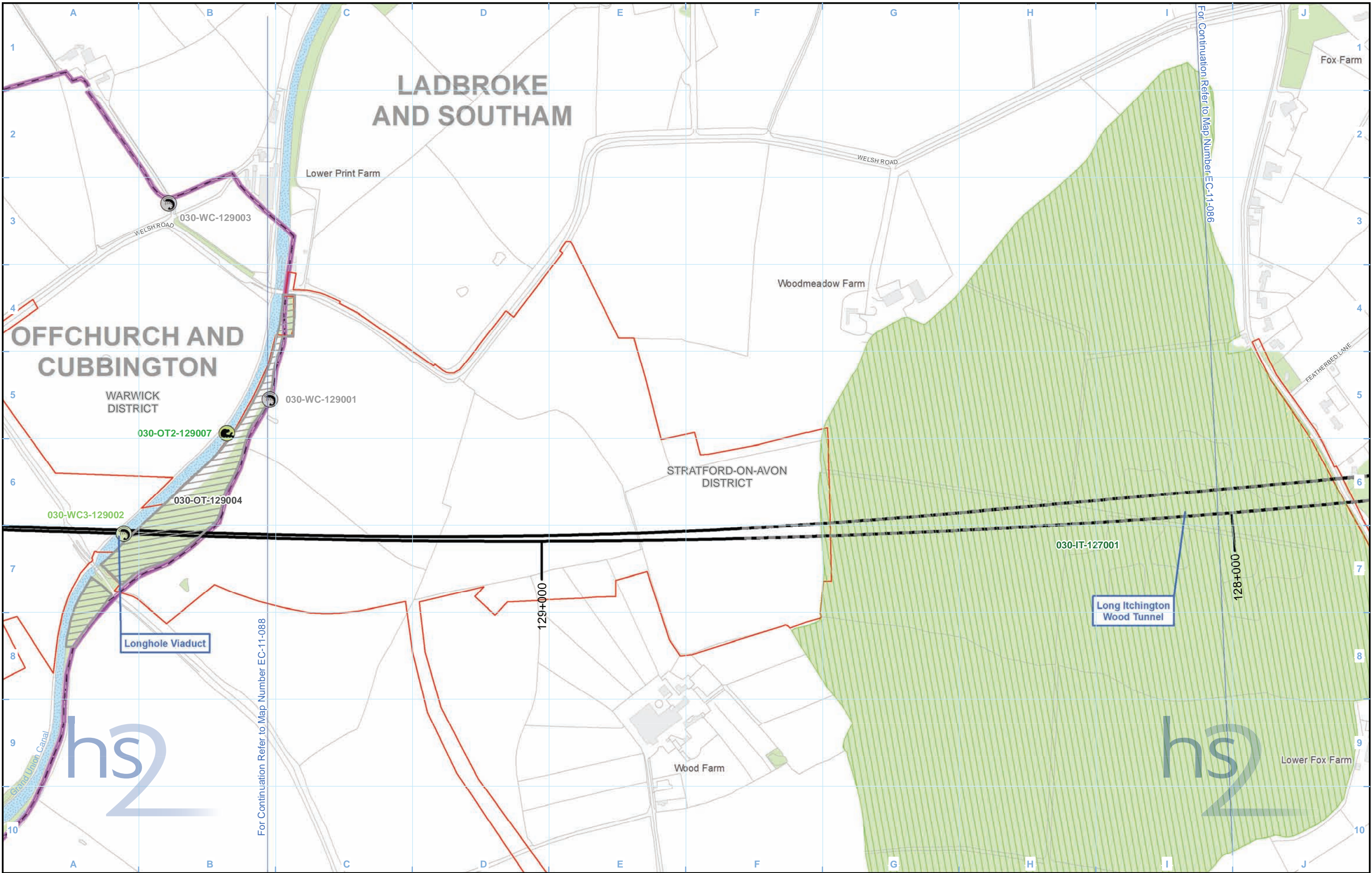
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Map Name Other Protected and Notable Species (1)		Map Name Other Protected and Notable Species (1)		
Community Forum Area CFA16: Ladbroke and Southam		Community Forum Area CFA16: Ladbroke and Southam		

Route in tunnel Route on surface	Watercourse Water body	Otter: Active otter holt Potential otter holt Otter terrestrial habitat	White Clawed Crayfish: Manual search and/or trapping conducted and presence confirmed Manual search and/or trapping conducted and assumed absent Site identified as potentially suitable but no access available	Pond survey: Pond survey – national pond survey Pond survey – PSYM Pond survey – rapid assessment method	Fish: Fish survey location Terrestrial invertebrate: Terrestrial invertebrate survey extent
--	----------------------------------	---	--	--	---

Scale at A3: 1:5,000



Date: 25/10/13



Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

District/Borough boundary

Watercourse

Water body

Woodland (verified by survey)

Otter:

Active otterholt

Potential otterholt

Otterterrestrialhabitat

WhiteClawedCrayfish:

Manualsearchand/ortrappingconductedandpresenceconfirmed

Manualsearchand/ortrappingconductedandassumedabsent

Siteidentifiedaspotentiallysuitablebutnoaccessavailable

Ponds survey:

Ponds survey – nationalpondsurvey

Ponds survey – PSYM

Ponds survey – rapidassessmentmethod

Fish:

Fishsurveylocation

Terrestrialinvertebrate:

Terrestrialinvertebratesurveyextent

Map Number

EC-11-087

Map Name

Other Protected and Notable Species (1)

Community Forum Area CFA16:
Ladbroke and Southam

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Scale at A3: 1:5,000

0

50

100

150

200

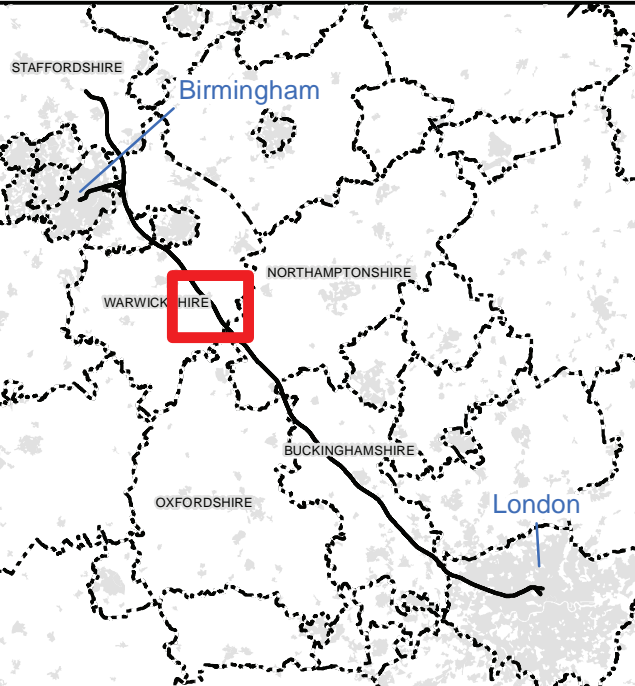
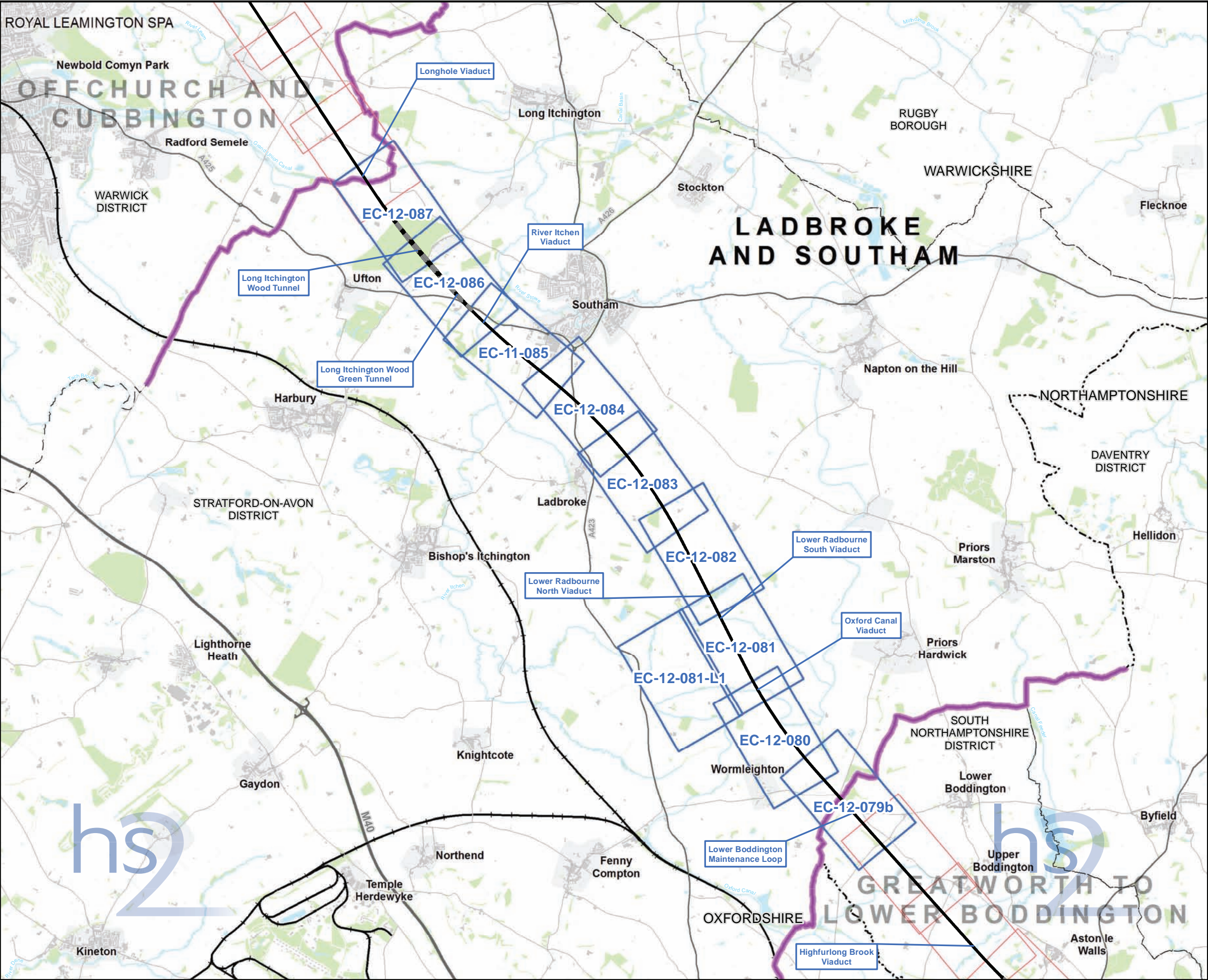
Metres

Date: 25/10/13

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LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

EC-12 – Other Protected and Notable Species (2)




Map Series Information:

This map series shows the extent of protected species surveys conducted to inform the Environmental Statement.

Note: Not all data layers in the legend are represented on every map.

- Main Map Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community forum boundary
 - Existing railway station
 - County boundary
 - District/Borough boundary
 - Map sheets included in this community forum
 - Map sheets not included in this community forum

Map Number	EC-12-INDEX-CFA16
Map Name	Index Map of: Other Protected and Notable Species (2)
Community Forum Area CFA16: Ladbroke and Southam	




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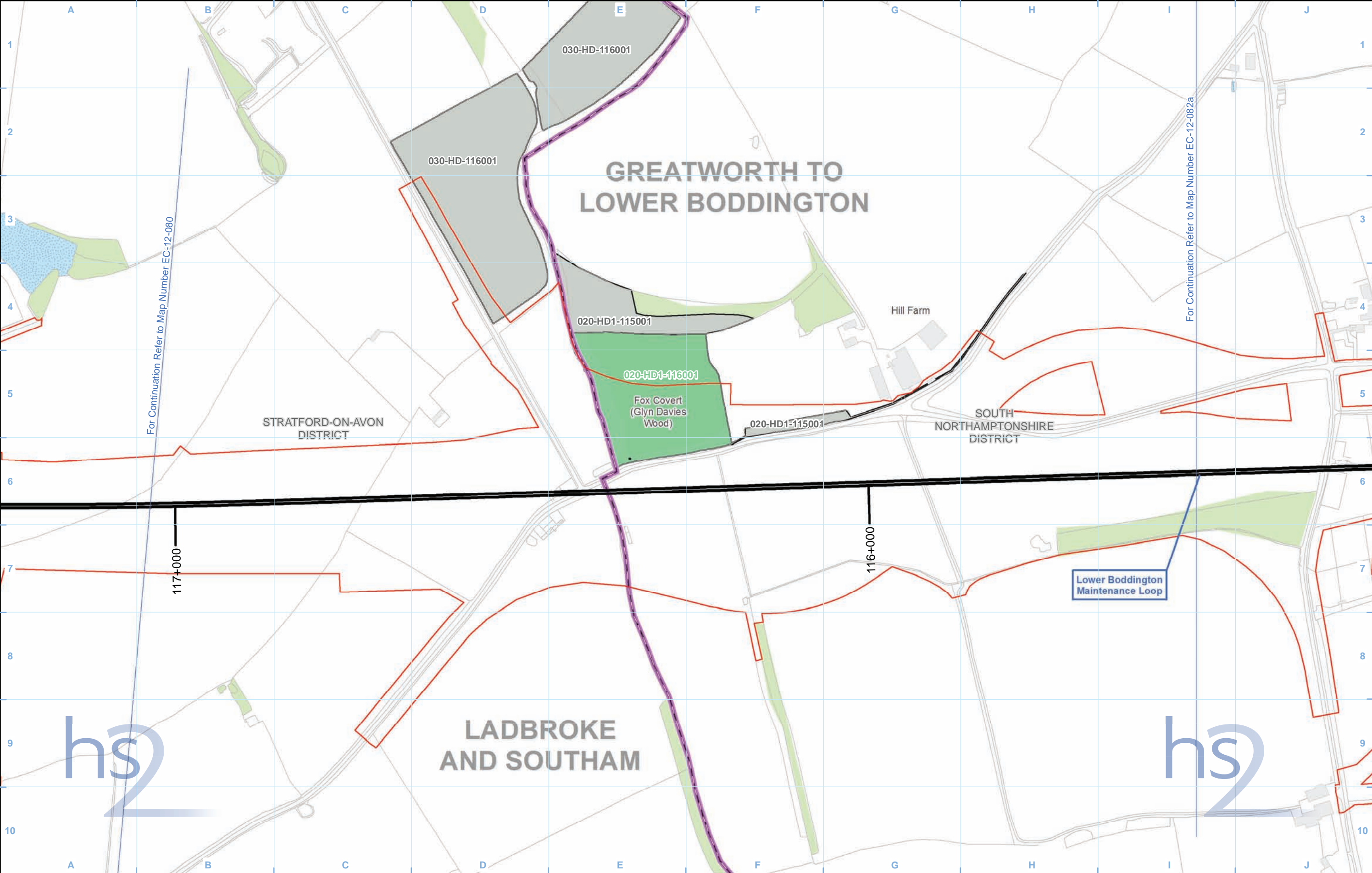


Scale at A3: 1:65,000



0 650 1,300 1,950 2,600
Metres

Date: 25/10/13



Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

District/Borough boundary

Watercourse

Water body

Woodland (verified by survey)

Aquatic invertebrate: survey location

Water vole:

Water vole survey undertaken – presence confirmed

Water vole survey undertaken – assumed absent

Watercourse potentially suitable for water vole - no or limited access for survey

Dormouse:

Nest tube survey and/or nut search conducted and presence confirmed

Nest tube survey and/or nut search conducted and no signs of dormouse identified

Site identified as potentially suitable for dormouse but no access available

Map Number: EC-12-079b

Map Name: Other Protected and Notable Species (2)

Community Forum Area CFA16: Ladbroke and Southam

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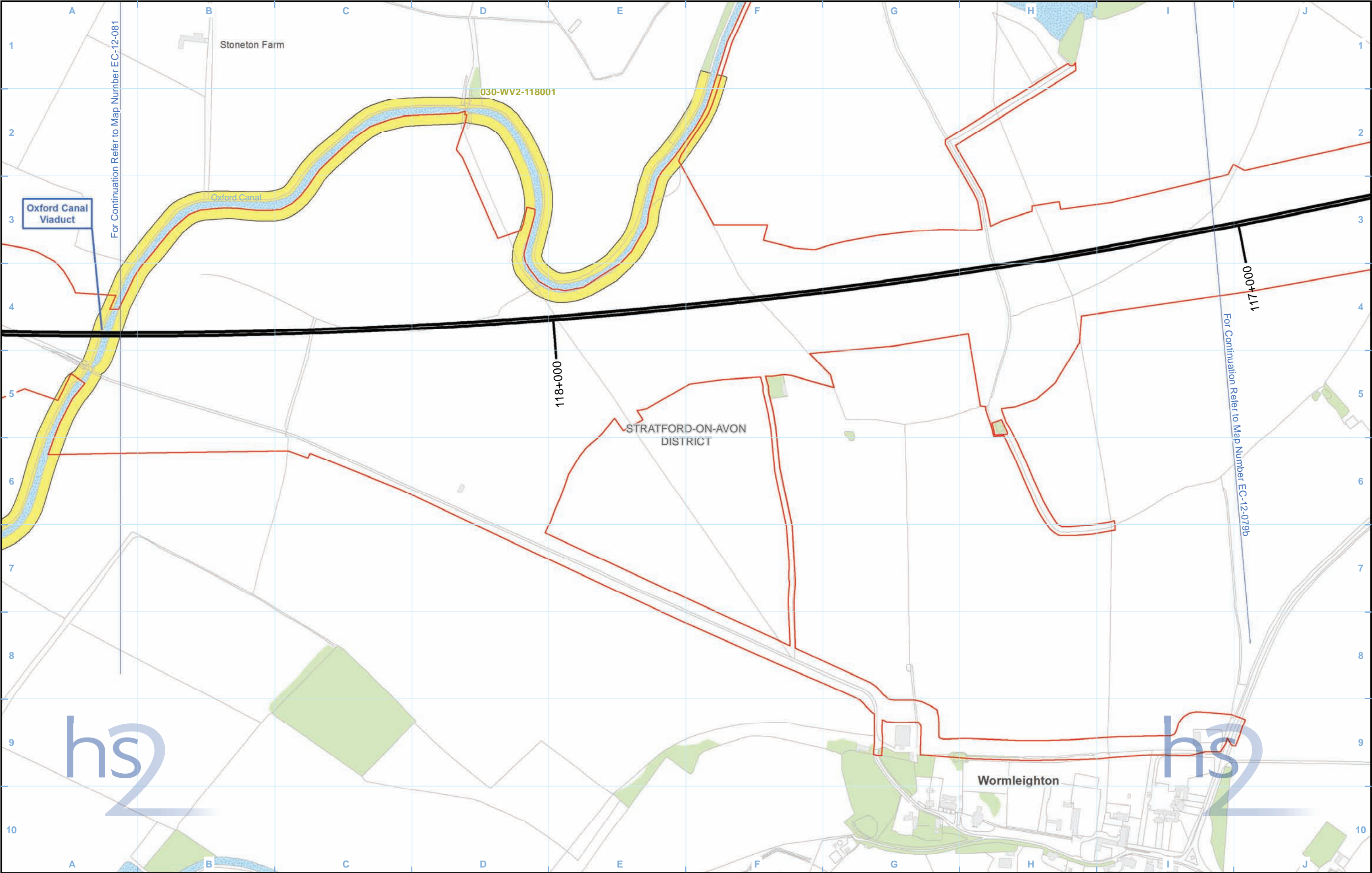
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Date: 30/10/13

Scale at A3: 1:5,000

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Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

District/Borough boundary

Watercourse

Water body

Woodland (verified by survey)

Aquatic invertebrate: survey location

Water vole:

Water vole survey undertaken – presence confirmed

Water vole survey undertaken – assumed absent

Watercourse potentially suitable for water vole - no or limited access for survey

Dormouse:

Nest tube survey and/or nut search conducted and presence confirmed

Nest tube survey and/or nut search conducted and no signs of dormouse identified

Site identified as potentially suitable for dormouse but no access available

Map Number

EC-12-080

Map Name

Other Protected and Notable Species (2)

Community Forum Area CFA16: Ladbroke and Southam

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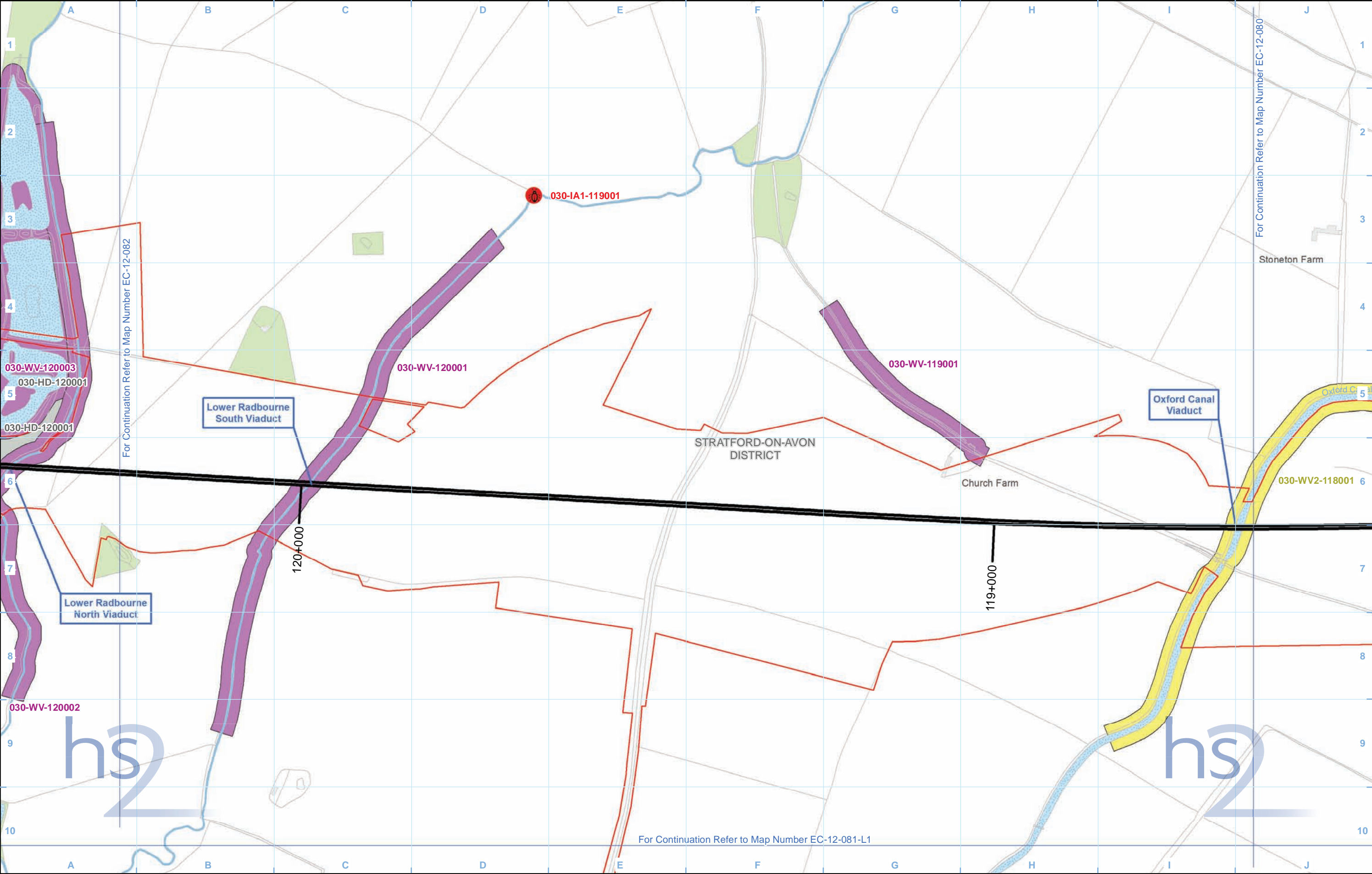
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Date: 30/10/13

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Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

District/Borough boundary

Watercourse

Water body

Woodland (verified by survey)

Aquatic invertebrate:
Aquatic invertebrate survey location

Water vole:
Water vole survey undertaken – presence confirmed

Water vole survey undertaken – assumed absent

Watercourse potentially suitable for water vole - no or limited access for survey

Dormouse:
Nest tube survey and/or nut search conducted and presence confirmed

Nest tube survey and/or nut search conducted and no signs of dormouse identified

Site identified as potentially suitable for dormouse but no access available

Map Number

EC-12-081

Map Name

Other Protected and Notable Species (2)

Community Forum Area CFA16:
Ladbroke and Southam

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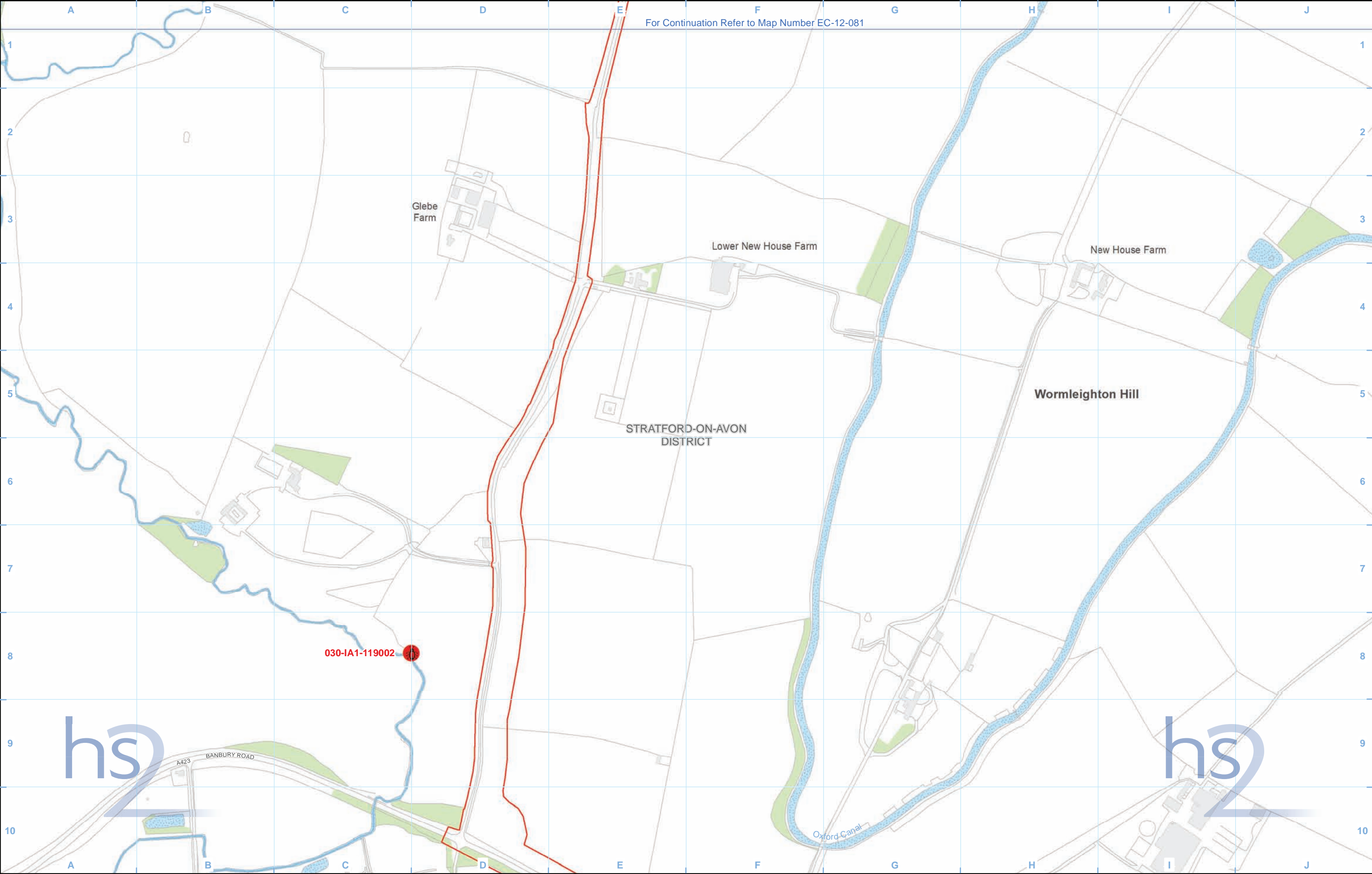
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Scale at A3: 1:5,000

0 50 100 150 200

Metres

Date: 30/10/13



Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

District/Borough boundary

Watercourse

Water body

Woodland (verified by survey)

Aquatic invertebrate:

Aquatic invertebrate survey location

Water vole:

Water vole survey undertaken – presence confirmed

Water vole survey undertaken – assumed absent

Watercourse potentially suitable for water vole - no or limited access for survey

Dormouse:

Nest tube survey and/or nut search conducted and presence confirmed

Nest tube survey and/or nut search conducted and no signs of dormouse identified

Site identified as potentially suitable for dormouse but no access available

Map Number

EC-12-081-L1

Map Name

Other Protected and Notable Species (2)

Community Forum Area CFA16:

Ladbroke and Southam

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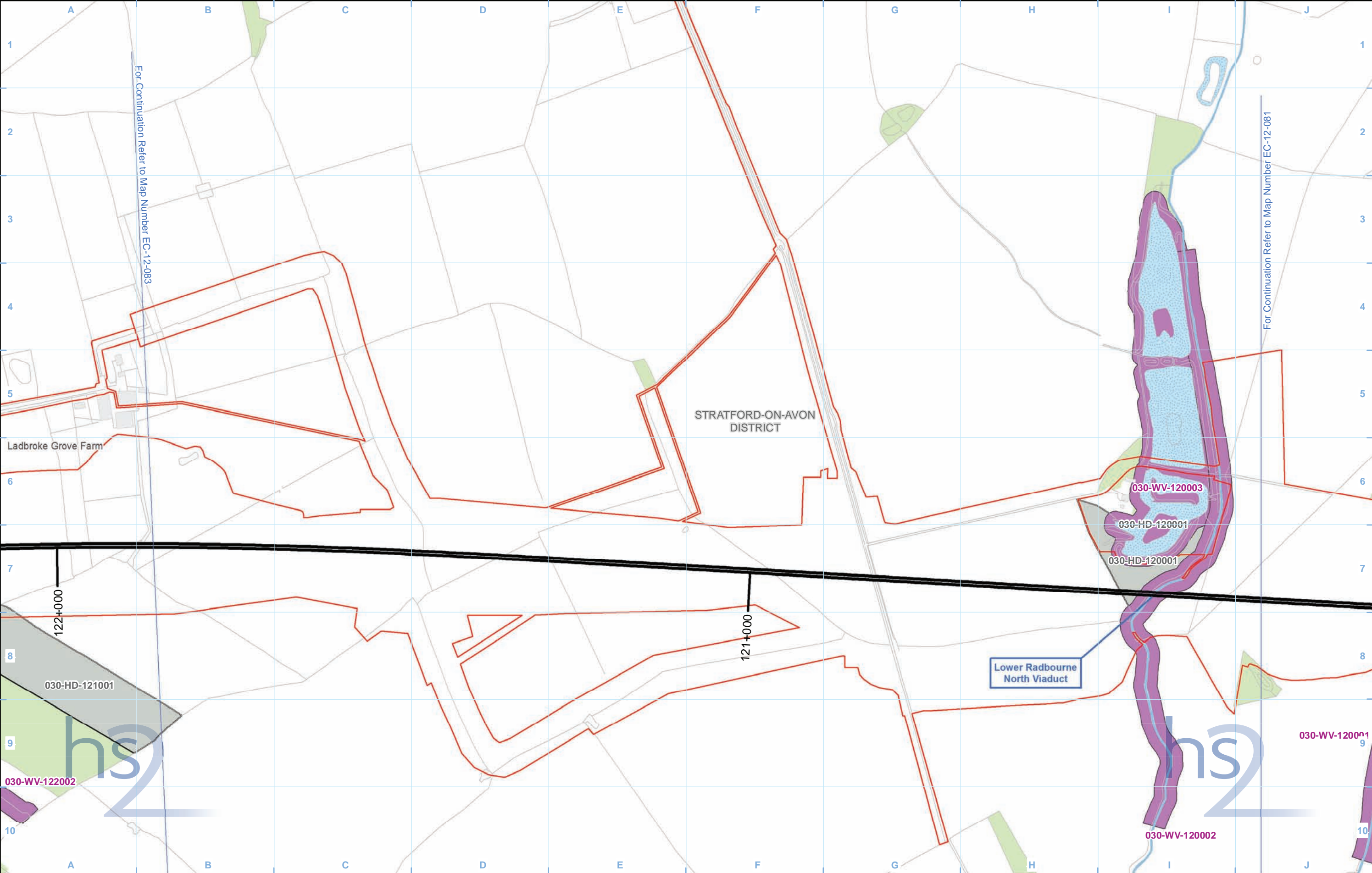
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Scale at A3: 1:5,000

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Metres

Date: 30/10/13



Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

District/Borough boundary

Watercourse

Water body

Woodland (verified by survey)

Aquatic invertebrate: survey location

Water vole:

Water vole survey undertaken – presence confirmed

Water vole survey undertaken – assumed absent

Watercourse potentially suitable for water vole - no or limited access for survey

Dormouse:

Nest tube survey and/or nut search conducted and presence confirmed

Nest tube survey and/or nut search conducted and no signs of dormouse identified

Site identified as potentially suitable for dormouse but no access available

Map Number: EC-12-082

Map Name: Other Protected and Notable Species (2)

Community Forum Area CFA16: Ladbroke and Southam

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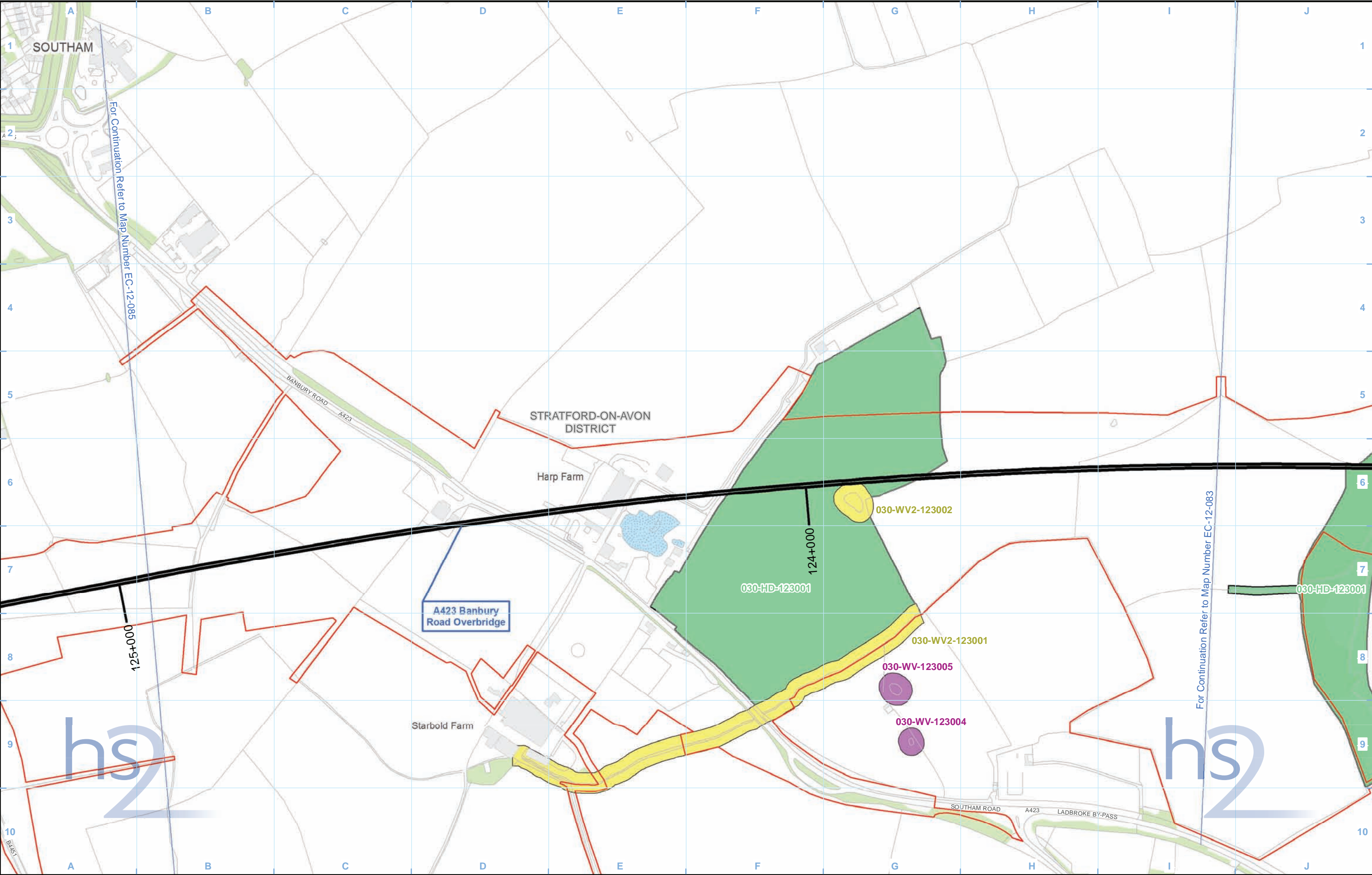
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Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

District/Borough boundary

Watercourse

Water body

Woodland (verified by survey)

Aquatic invertebrate:

Aquatic invertebrate survey location

Water vole:

Water vole survey undertaken – presence confirmed

Water vole survey undertaken – assumed absent

Watercourse potentially suitable for water vole - no or limited access for survey

Dormouse:

Nest tube survey and/or nut search conducted and presence confirmed

Nest tube survey and/or nut search conducted and no signs of dormouse identified

Site identified as potentially suitable for dormouse but no access available

Map Number

EC-12-084

Map Name

Other Protected and Notable Species (2)

Community Forum Area CFA16:

Ladbroke and Southam

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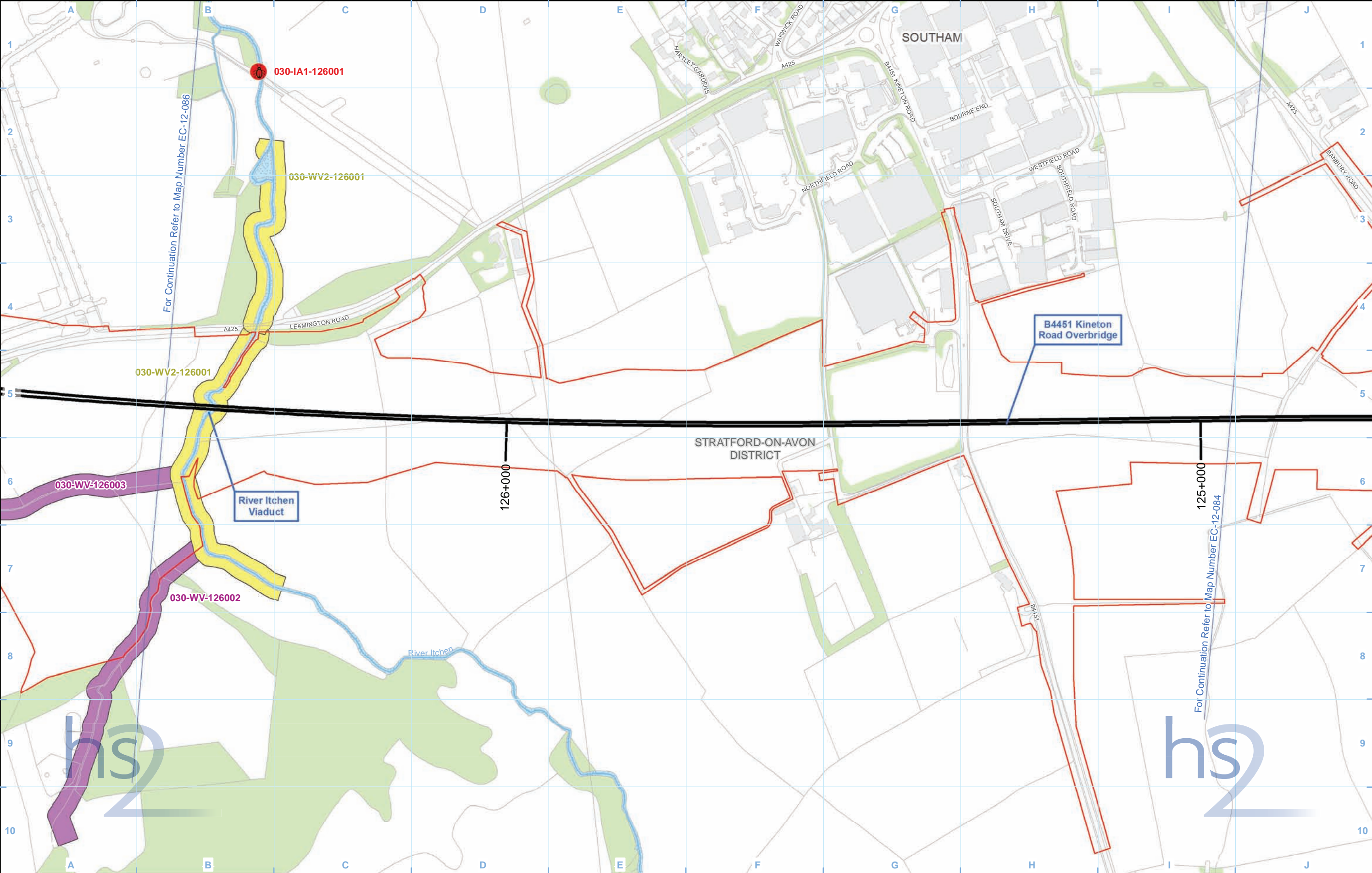
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Metres

For Continuation Refer to Map Number EC-12-083

Date: 30/10/13



Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

District/Borough boundary

Watercourse

Water body

Woodland (verified by survey)

Aquatic invertebrate survey location

Water vole survey undertaken – presence confirmed

Water vole survey undertaken – assumed absent

Watercourse potentially suitable for water vole - no or limited access for survey

Dormouse: Nest tube survey and/or nut search conducted and presence confirmed

Dormouse: Nest tube survey and/or nut search conducted and no signs of dormouse identified

Dormouse: Site identified as potentially suitable for dormouse but no access available

Map Number

EC-12-085

Map Name

Other Protected and Notable Species (2)

Community Forum Area CFA16:
Ladbroke and Southam

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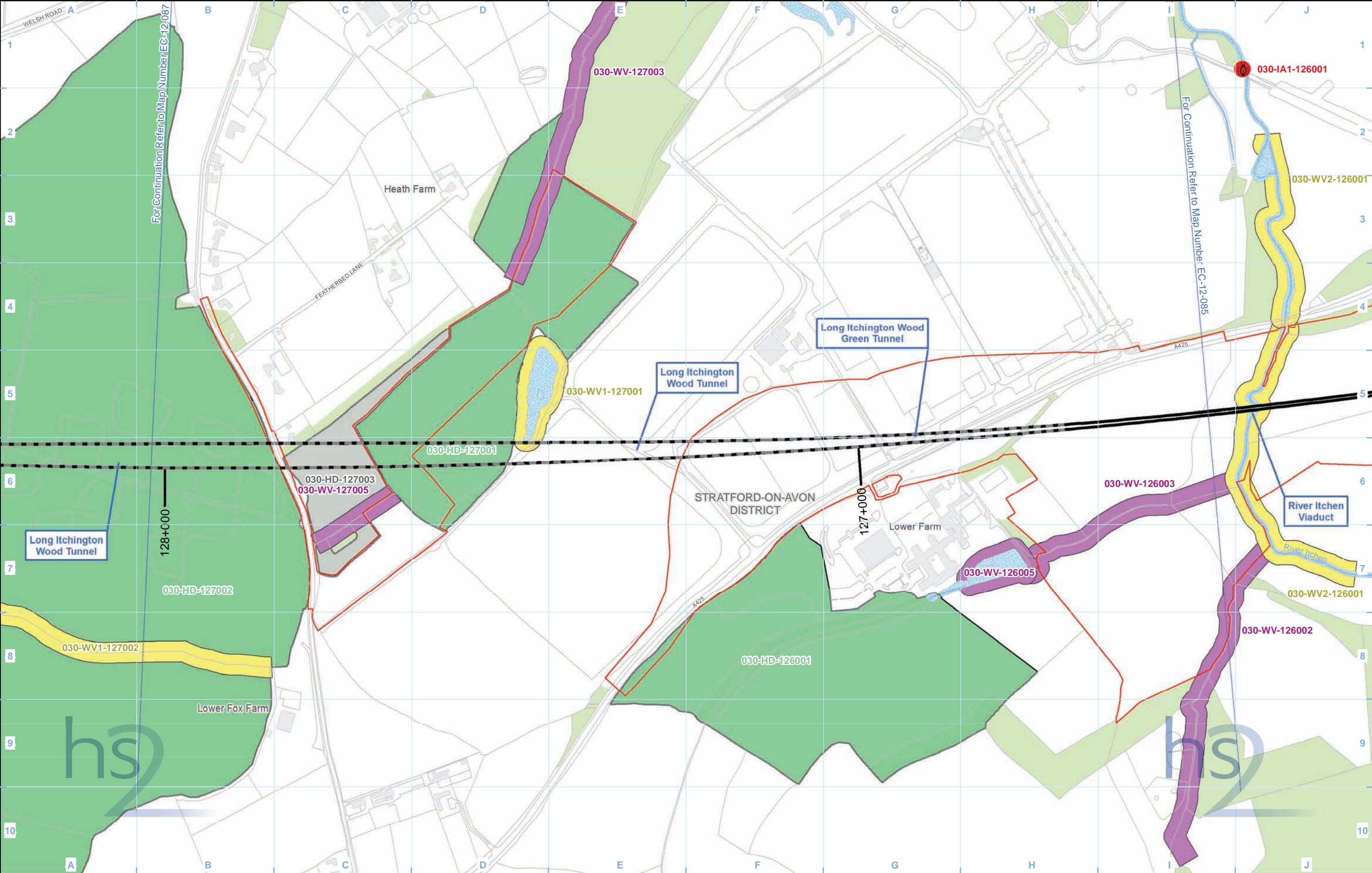
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Scale at A3: 1:5,000

Metres

Date: 30/10/13



Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

District/Borough boundary

Watercourse

Water body

Woodland (verified by survey)

Aquatic invertebrate: Aquatic invertebrate survey location

Water vole:

Water vole survey undertaken – presence confirmed

Water vole survey undertaken – assumed absent

Watercourse potentially suitable for water vole - no or limited access for survey

Dormouse:

Nest tube survey and/or nut search conducted and presence confirmed

Nest tube survey and/or nut search conducted and no signs of dormouse identified

Site identified as potentially suitable for dormouse but no access available

Map Number: EC-12-086

Map Name: Other Protected and Notable Species (2)

Community Forum Area CFA16: Ladbroke and Southam

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